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CHILDREN'S BODY MEASUREMENTS FOR SIZING GARMENTS AND PATTERNS

U. S. DEPARTMENT OF AGRICULTURE MISCELLANEOUS PUBLICATION No. 365

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UNITED STATES DEPARTMENT OF AGRICULTURE

MISCELLANEOUS PUBLICATION NO. 365

Children's Body Measurements for Sizing Garments and Patterns

A proposed standard system based on height and girth of hips

by Ruth O'Brien, chief and Meyer A. Girshick, associate statistician TEXTILES AND CLOTHING DIVISION BUREAU OF HOME ECONOMICS



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Foreword

The proposed standard system of children's body measurements suggested here is the result of many months' study by statisticians of 4,917,052 body measurements taken on 133,807 American boys and girls as part of a cooperative Works Progress Administration research project, initiated and led by the Bureau of Home Economics of the United States Department of Agriculture. A complete technical report of the study is now in preparation.

Eighteen colleges, universities, and other educational institutions helped in this research by giving the part-time services of one of their teachers who arranged local training schools for measurers, obtained permission to measure children in various counties in their States, and assisted in supervision.

Acknowledgment is here given to these cooperators:

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> LOUISE STANLEY, Chief, Bureau of Home Economics.

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Children's Body Measurements for Sizing Garments and Patterns

Need for Scientific Measurements

The rapid growth of the pattern and ready-towear industry in the United States has brought with it many difficulties in the proper sizing of garments and patterns, especially those manufactured for women and children. Any satisfactory American sizing system must be based on dimensions obtained by measuring large numbers of persons throughout the country. Each measurement must be made in exactly the same way by individuals carefully trained in a method that can be duplicated. The same kind of instruments must be used, and these must be constantly checked so that they are accurate.

Unfortunately no such large, scientific study of the body measurements used in the construction of women's and children's garments has ever been reported. When funds were made available by the Works Progress Administration in 1937. the Bureau of Home Economics, therefore, organized and directed such a cooperative research project. The measurements used in the construction of trunk garments were taken on 147,088 children, 4 to 17 years of age, inclusive, distributed in 15 States and the District of Columbia.

This proposed standard of body measurements is based on the results of that study. It recommends dimensions to be used in constructing a series of standard mannequins such as are used by manufacturers to size garments and patterns. The measurements were taken next to the skin. The proposed standard, therefore, does not give garment and pattern dimensions. Standards for these can be developed from this proposed basis by agreement in the trade on tolerances for construction, style, and other clothing features.

Measurements Included in the Study

The 36 measurements made on each child were chosen after consultation with retailers and garment and pattern manufacturers. These measurements are listed in the appendix (p. 19). together with a description of the method used in taking each. The boys wore trunks and the girls trunks and bandeaux. Men measured boys and women measured girls. Measurers were trained in the particular methods they were to use, and every possible precaution was taken to see that all measurements were made accurately and in the same way with reliable, calibrated instruments.

The first plan was to include measurements of feet, hands, and heads as the basis for sizing shoes. gloves, and hats. This idea had to be abandoned, however. Trials showed that such a large number of measurements fatigued the children too much. The results were inaccurate, and school authorities were unwilling to grant permission to measure a large group of children more than once. The list was therefore restricted to weight and the measurements used in making garments worn on the trunk of the body. The age range included in the study was limited by the funds available. The ages 4 to 17 were chosen because large groups of children of these ages could be reached in the schools, thus reducing the time and expense involved.

Number of Children Measured

Although 147,088 children were measured, the size system proposed here is based on measurements obtained on 133,807 children (69,661 boys

and 64,146 girls) which was the number of complete records available when this part of the study was started. The distribution by States is shown in table 1. Some parts of the country are not represented. The taking of measurements depended on the cooperation of local institutions that would act as sponsors, and on school boards and other authorities willing to allow children to be measured. Unfortunately, such cooperation could not be secured in all sections of the country.

State	Boys	Girls	Total
Alabama	4, 106	4, 446	8, 552
California	2,625	2,484	5, 109
Colorado	4,303	4, 302	8, 605
District of Columbia and Maryland	6, 521	5, 244	11, 765
Illinois	6,978	6, 581	13, 559
Iowa	3,961	4,010	7,971
Kansas	3, 513	4,240	7,753
Michigan	6, 846	3,754	10,600
Minnesota	5,672	5,969	11,641
Nebraska	3, 510	3, 539	7,049
Ohio	7,808	3,774	11,582
Pennsylvania	3, 249	4, 198	7,447
Tennessee	2,918	2, 899	5, 817
Texas	3, 514	4,046	7,560
Utah	4, 137	4, 660	8, 797
Total	69, 661	64, 146	133, 807

TABLE 1.—Number of children by States

Age, the Poorest Predictor of Body Dimensions

Essentially the problem of sizing garments is one of finding that measurement or combination of measurements which best predicts the other dimensions of a child's body. This is especially true when what is required is the creation of a representative form or model upon which standard garments may be manufactured. It follows, therefore, that the best choice is that measurement or combination of measurements which is most closely related to the greatest number of the others, provided, of course, it also satisfies the further criterion of being practicable.

Age is now used as a basis for sizing practically all children's garments and patterns, and many persons have surmised that this is the underlying cause of size difficulties. A great many children of exactly the same age have entirely different dimensions and body proportions. The first step in this study was therefore to check this point and to determine by a statistical analysis of the measurements obtained what basis is best.

Briefly, three independent samples from the records were used for this analysis. Two of these

Best size basis sought

included approximately 8,000 children each. and one 16,000. Each of these three samples gave similar results. The analysis was

carried out separately for boys and for girls. Eighteen important body measurements in addition to age and weight were selected for study. The correlation coefficient was calculated for the 190 possible pairs of the 20 items. In general terms the correlation coefficient is an index which measures the closeness with which one measurement can be predicted from another. The correlation coefficient never exceeds unity: and the nearer to one it is, the more highly the two measurements are related.

Tables 2 and 3 were obtained by combining the three samples upon which the analysis was carried out separately. Table 2 gives the correlations of each of the 20 items with every other item for a sample of 32,165 boys, aged 4 to 14. and table 3 gives similar correlations for 31,919 girls, aged 4 to 14. For example, column 2 in these tables gives the correlation of age (in months) with every other measurement, and column 3 gives the correlation of waist height with every other measurement.

Note that on the whole the set of correlations in column 2 is smaller than the sets in any other column. Thus, of the entire set, age is the least highly correlated with all the other measurements. Note also that on the whole, lengths are more highly correlated with other lengths than with girths and that girths are more highly correlated with other girths than with lengths. It should be pointed out, however, that from a statistical point of view the close relationship found between two lengths is not so significant when one of the lengths forms part of the other as when they are independent of each other. An example of the first would be stature and hip height, and of the second stature and length of arm.

TABLE 2.—Intercorrelations of 20 measurements on a sample of 32,165 boys aged 4-14

	Age	Waist height	Hip height	Weight	Stature	Cervicale height	Tibiale height	Bitrochanterie diameter	Chest girth	Waist girth	Hip girth	Neck-hase girth	Armscye girth	Upper-arm girth	Posterier a r m length	Thigh girth	Maximum calf girth	Knee girth	Croteh length	Vertical trunk girth
					0.897															
Age		0.899	0.900	0.822	0.001	0.898	0.879	0.826	0.813	0.690	0.807	0.760	0.823	0.688	0.887	0.736	0.785	0.812	0.799	0.848
Waist height	0.899		. 991	. 915	. 990	. 991	. 977	. 909	. 886	.777	. 896	. 841	. 891	. 766	. 974	. 824	. 864	. 901	. 904	. 933
Hip height	, 900	. 991		. 901	. 985	. 986	. 978	. 894	. 875	. 764	. 881	. 828	. 881	. 750	. 973	. 808	. 852	. 890	. 873	. 916
Weight	. 822	. 915	. 901		. 927	. 926	. 897	, 961	. 958	. 903	. 975	. 888	. 943	. 912	.914	. 937	. 948	. 947	. 933	. 961
Stature	. 897	. 990	. 985	. 927		. 996	. 972	. 918	. 896	. 782	. 904	. 857	. 901	.776	. 973	. 828	. 875	. 907	. 903	. 951
Cervicale height	, 898	. 991	. 986	. 926	. 996		. 973	. 918	. 895	. 783	. 904	. 851	. 900	. 775	. 974	. 828	. 873	. 906	. 901	. 949
Tibiale height	. 879	. 977	. 978	. 897	. 972	.973		. 890	. 870	.767	. 877	. 824	. 872	.750	. 960	. 806	. 852	. 900	. 866	. 909
Bitrochanteric diam.	. 826	. 909	. 894	. 961	. 918	. 918	. 890		. 931	.875	. 973	. 861	. 921	. 880	. 907	. 921	. 928	. 935	. 914	. 938
Chest girth	. 813	. 886	. 875	. 958	. 896	. 895	. 870	. 931		. 900	. 946	. 879	. 930	. 899	. 891	. 911	. 917	. 918	. 898	. 932
Waist girth	. 690	.777	. 764	. 903	. 782	. 783	. 767	. 875	. 900		. 909	. 807	. 856	. 879	. 782	. 900	. 870	.868	. 836	. 849
Hip girth	. 807	. 896	. 881	. 975	. 904	. 904	. 877	. 973	. 946	. 909		. 868	. 932	. 922	. 893	. 964	. 947	. 952	. 930	. 944
Neck-base girth	. 760	. 841	, 828	, 888	. 857	. 851	. 824	.861	. 879	. 807	.868		. 878	. 810	. 845	. 821	. 846	. 850	. 849	. 885
Armscye girth	. 823	.891	. 881	. 943	.901	. 900	. 872	. 921	. 930	. 856	. 932	. 878		. 889	. 898	. 894	, 902	. 908	. 891	. 930
Upper-arm girth	. 688	. 766	. 750	. 912	. 776	. 775	. 750	. 880	. 899	. 879	. 922	. 810	. 889		. 771	. 936	. 900	. 877	. 845	. 855
Posterior arm length	. 887	. 974	. 973	. 914	. 973	. 974	. 960	. 907	. 891	. 782	. 893	845	. 898	. 771		. 821	. 861	. 895	. 882	. 924
Thigh girth	. 736	. 824	. 808	. 937	. 828	. 828	. 806	. 921	. 911	. 900	. 964	. 821	. 894	. 936	. 821		. 931	. 917	. 882	. 886
Maximum calf girth.	. 785	. 864	. 852	. 948	. 875	. 873	. 852	. 928	. 917	. 870	. 947	. 846	. 902	. 900	. 861	. 931		. 936	. 892	. 912
Knee girth	. 812	. 901	. 890	. 947	. 907	. 906	. 900	. 935	. 918	. 868	. 952	. 850	. 908	. 877	. 895	. 917	. 936		. 903	. 924
Crotch length	. 799	. 904	. 873	. 933	. 903	. 901	. 866	. 914	. 898	. 836	. 930	. 849	. 891	. 845	. 882	. 882	. 892	. 903		. 942
Vertical trunk girth.	. 848	. 933	. 916	. 961	. 951	. 949	. 909	. 938	. 932	. 849	. 944	. 885	. 930	. 855	. 924	. 886	. 912	. 924	. 942	

TABLE 3.-Intercorrelations of 20 measurements on a sample of 31,919 girls aged 4-14

	Age	Waist height	Hip height	Weight	Stature	Cervicale height	Tiblale height	Bitrochanteric diameter	Chest girth	Waist girth	Hip girth	Neek-base girth	Armseye girth	Upper-arm girth	Posterior arm length	Thigh girth	Maximum calf girth	Knce girth	Crotch length	Vertical trunk girth
Age		0.915	0.908	0.843	0.921	0. 921	0.890	0.857	0.826	0.673	0.840	0.799	0.823	0.692	0. 909	0.765	0.800	0.823	. 826	0.885
Waist height	0.915		. 989	. 906	. 990	. 991	. 974	. 904	. 875	. 746	. 895	. 852	. 877	. 751	. 975	. 828	. 854	. 890	. 901	. 937
Hip height	. 908	. 989		. 884	. 982	. 982	. 974	. 881	. 856	. 727	. 871	. 833	. 856	. 724	. 971	. 804	. 834	.872	.862	. 912
Weight	. 843	. 906	. 884		. 915	. 916	. 878	. 967	. 961	. 889	. 983	. 889	. 939	. 910	. 904	. 955	. 948	. 948	. 936	. 960
Stature	. 921	. 990	. 982	. 915		. 996	. 968	. 915	. 881	.744	. 902	.852	.881	. 752	. 974	. 830	. 862	. 893	. 895	. 952
Cervicale height	. 921	. 991	. 982	. 916	. 996		. 968	. 916	. 882	. 747	. 904	. 856	. 882	. 755	. 974	. 832	. 862	. 892	. 896	. 951
Tibiale height	. 890	. 974	. 974	. 878	. 968	. 968		.876	. 850	. 728	. 866	.827	. 849	. 726	. 957	. 803	. 833	. 878	. 854	. 902
Bitrochanteric diam.	. 857	. 904	. 881	. 967	. 915	. 916	. 876		. 937	. 852	. 979	. 865	. 916	. 872	. 902	. 931	, 920	. 931	. 920	. 947
Chest girth	. 826	. 875	. 856	. 961	. 881	. 882	. 850	. 937		. 895	. 953	. 871	. 927	. 897	. 877	. 929	. 916	. 918	. 903	. 928
Waist girth	. 673	. 746	. 727	. 889	. 744	. 747	. 728	. 852	. 895		. 886	. 787	. 850	. 881	. 747	. 896	. 855	.854	.826	. 823
Hip girth	. 840	. 895	. 871	. 983	. 902	. 904	. 866	. 979	. 953	. 886		. 875	. 931	. 913	. 892	. 967	. 944	. 949	. 937	. 952
Neck-base girth	. 799	. 852	. 833	. 889	. 852	. 856	. 827	. 865	. 871	. 787	. 875		. 862	. 795	. 849	. 839	. 846	. 857	. 852	. 881
Armscye girth	. 823	. 877	. 856	. 939	. 881	. 882	. 849	. 916	. 927	. 850	. 931	. 862		. 885	. 880	.907	. 896	. 903	. 893	. 920
Upper-arm girth	. 692	. 751	. 724	. 910	. 752	. 755	. 726	. 872	. 897	. 881	. 913	. 795	. 885		. 751	. 939	, 899	. 880	. 850	. 842
Posterior arm length	. 909	. 975	. 971	. 904	. 974	. 974	. 957	, 902	.877	. 747	. 892	. 849	. 880	. 751	L	. 824	. 850	. 883	.875	. 925
Thigh girth	. 765	. 828	. 804	. 955	. 830	. 832	. 803	. 931	. 929	. 896	. 967	. 839	. 907	. 939	. 824		. 937	. 929	. 903	. 901
Maximum calf girth.	. 800	. 854	. 834	. 948	. 862	. 862	. 833	. 920	. 916	. 855	. 944	. 846	. 896	. 899	.850	. 937		. 937	. 892	. 908
Knee girth	. 823	. 890	. 872	. 948	. 893	. 892	. 878	. 931	. 918	. 854	. 949	. 857	. 903	. 880	. 883	. 929	. 937		. 906	. 921
Crotch length	. 826	. 901	. 862	. 936	. 895	. 896	. 854	. 920	. 903	. 826	. 937	. 852	. 893	. 850	. 875	. 903	. 892	. 906		. 945
Vertical trunk girth_	. 885	. 937	. 912	. 960	. 952	. 951	. 902	. 947	. 928	. 823	. 953	. 881	. 920	. 842	. 925	. 901	. 908	. 921	. 945	

In order to put age on a relative basis with other measurements, it was taken in combination with each one of seven important measurements and its percentage contribution to the prediction of the other 18 measurements calculated. Table 4 gives the results obtained on the basis of age and height (stature), and age and girth of hips. The percentage contribution of age in the prediction of all the other measurements is almost negligible as compared with that of stature. In predicting other

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TABLE 4.—Percentage contribution of age in predicting body measurements in contrast to the contribution of stature or of hip girth

		Вс	ys		Girls						
Measurements to be predicted	Age versu	as stature	Age versu	s hip gi r th	Age versu	18 stature	Age versu	s hip girth			
ľ	Age	Stature	Age	Hip girth	Age	Stature	Age	Hip girth			
	Percent	Percent	Percent	Percent	Percent	Percent	Perceni	Percent			
Waist height	5.2	94.8	50.7	49.3	2.2	97.8	56.5	43.5			
Hip height	8.5	91.5	55.1	44.9	2.4	97.6	61.8	38.2			
Weight	4.8	95.2	10.4	89.6	.4	99.6	5.8	94.2			
Stature			48.2	51.8			55.9	44.1			
Cervicale height	2.2	97.8	48.5	51.5	2.2	97.8	55.3	44.7			
Tibiale height	3.3	96.7	50.3	49.7	. 8	99.2	57.7	42.3			
Bitrochanteric diameter	1.1	98. 9	11.8	88.2	10.4	89.6	11.6	88.4			
Chest girth	5.5	94.5	14.6	85.4	10.9	89.1	9.1	90.9			
Waist girth	6.9	93.1	11.0	89.0	8.5	91.5	18.3	81.7			
Hip girth	2.7	97.3			7.0	93.0					
Neck-base girth	5.0	95.0	18.8	81.2	10.7	89, 3	23.8	76, 2			
Armscye girth	7.8	. 92.2	20.9	79.1	8.3	91.7	14.3	85.7			
Upper-arm girth	. 5.1	94.9	13.2	86.8	.5	99.5	18.5	81.5			
Posterior arm length	7.3	92.7	48.4	51.6	8.3	91.7	55.6	44.4			
Thigh girth	4.1	95.9	10.1	89.9	.8	99.2	12.8	87.2			
Maximum calf girth	. 1	99.9	6.4	93.6	5.1	94.9	2.3	97.7			
Knee girth	1.1	98.9	13.1	86.9	1.0	99.0	9.0	91.0			
Crotch length	5.5	94.5	14.7	85.3	1.4	98.6	13.5	86.5			
Vertical trunk girth	2.4	97.6	25.1	74.9	5.7	94, 3	25.8	71.2			

girths. age contributes much less than hip girth. This is true for both boys and girls. This fact, when taken in conjunction with the results of tables 2 and 3, shows that a system of sizing much superior to that of age can be found.

A study of a more technical nature showed that if only one measurement were to be used as a basis for garment and pattern sizes, weight is the best one, girth of hips is second best, and age is the most unreliable.

Combination of a Body Length and a Girth Needed

Though weight or girth of hips, alone, is a fairly good measurement for sizing, neither is sufficient by itself to explain the variation of all the other measurements, especially the lengths. This is apparent from figures 1 and 2 which show the great variation in height for a given hip girth.

An analysis was next undertaken, therefore, to determine which combination of two measurements would best predict the other measurements of the set. To this end, 8 of the 20 measurements were chosen which in combination seemed likely to be good measurements for the purpose of sizing garments. The 8 items chosen were: Waist height, weight, stature (i. e., height). girth of chest at the armscye, girth of hips, total posterior length of the arm, and the vertical girth of the trunk, age being included as a further check.

These 8 measurements were divided into every possible combination of 2, and regression equations and multiple correlations were calculated for each of the 20 items on each of the combinations. In general, the regression equation is a formula which gives the predicted value of one measurement from the known values of a combination of others. The multiple correlation coefficient, like the simple correlation coefficients given in tables 2 and 3, is an index which measures how closely a measurement can be predicted from any given combination of other measurements.

This study has brought out several important facts. It showed, for instance. that if the measurements are divided into two categories. namely, lengths and girths, then in predicting a length, another length is the most important factor, while in predicting a girth, another girth is most important. Tables 5 and 6 illustrate this point well. Columns 2, 3, 7, and 8 of table 5 give the coefficient of the regression equation of 17 measurements on stature and girth of hips, and columns 4. 5. 9, and 10 give the percentage each coefficient is of the sum of both coefficients. These coefficients in standard units express the relative importance of a particular measurement in predicting the other measurements.

Thus, in predicting arm length on the basis of stature and girth of hips (table 5), in the case of the boys, stature contributes 92.6 percent, while girth of hips contributes only 7.4 percent. On the other hand, in predicting girth of chest, stature contributes only 22.5 percent. while girth of hips contributes 77.5 percent. It is also interesting to note that in predicting weight, the girth of hips contributes much more than stature.

The same is true in table 6, where the girth of chest was included in the regression equation for the prediction of the other measurements. This, together with a more extensive analysis, shows that the best predictor of both girths and lengths is a girth (or weight) in combination with a length.

 TABLE 5.—Standard coefficients of regression, with corresponding percentage contribution and multiple correlation, of 17

 measurements on stature and hip girth

			Boys			Girls							
Measurements	Standard coefficient of—		Percentage contri- bution of—		Multiple correla-	Standard o	coefficient f—	Percenta hutio	Multiple correla-				
	Stature	Hip girth	Stature	Hip girth	tion	Stature	Hip girth	Stature	Hip girth	tion			
Waist height	0, 9885	0,0021	99.8	0.2	0.990	0.9835	0.0075	99.2	0.8	0.990			
Hip height	1.0335	0539	95, 0	5.0	. 985	1.0522	0781	93. 1	6.9	982			
Weight	. 2495	. 7490	25.0	75.0	, 980	. 1502	.8474	15.1	84.9	. 985			
Cervicale height	. 9803	. 0175	98, 3	1.7	. 996	.9714	. 0274	97.3	2.7	. 996			
Tihiale height	. 9812	0101	99.0	1.0	.972	. 9998	0355	96.6	3.4	. 968			
Bitrochanteric diameter	. 2098	. 7830	21.1	78.9	. 977	. 1689	. 8265	17.0	83.0	. 982			
Chest girth	. 2175	. 7497	22.5	77.5	. 951	. 1179	. 8464	12.2	87.8	. 954			
Waist girth	2185	1.1065	16.5	83.5	. 914	3009	1.1578	20.6	79.4	. 896			
Neck-base girth	. 3928	. 5132	43.4	56.6	. 884	. 3388	. 5694	37.3	62.7	. 887			
Armscye girth	. 3218	. 6408	33.4	66.6	. 942	. 2215	. 7315	23.2	76.8	. 936			
Upper-arm girth	3176	1.2091	20.8	79.2	.932	3819	1.2572	23.3	76.7	. 927			
Posterior-arm length	. 9075	. 0728	92.6	7.4	. 974	. 9106	. 0700	92.9	7.1	. 974			
Thigh girth	—. 2395	1. 1803	16.9	83.1	.969	2295	1. 1741	16.4	83.6	.972			
Maximum calf girth	. 1024	. 8543	10.7	89.3	. 948	. 0516	. 8978	5.4	94.6	. 945			
Knee girth	. 2572	. 7188	26.4	73.6	. 958	. 1944	. 7739	20.1	79.9	. 953			
Crotch length	. 3387	. 6235	35.2	64.8	. 941	. 2634	. 6996	27.4	72.6	. 944			
Vertical trunk girth	. 5329	. 4619	53. 6	46.4	. 971	. 4975	. 5033	49.7	50.3	. 976			

 TABLE 6.—Standard coefficients of regression, with corresponding percentage contribution and multiple correlation, of 16 measurements on stature, chest girth, and hip girth

				Boys				Girls								
Measurements	Standard coefficient of—			Percentage contribution of—			Mul- tiple	Stand	lard coe of—	fficient	Percent	age cont: of—	ribution	M ul- tiple		
	Stature	C hest girth	Hip girth	Stature	Chest girth	Hip girth	corre- lation	Stature	Chest girth	Hip gi r th	Stature	Chest girth	Hip girth	corre- lation		
Waist height	0.9925	-0.0183	0.0158	96.7	1.8	1.5	0.990	0. 9819	. 0131	-0.0037	98.3	1,3	0.4	0.990		
Hip height	1.0315	. 0093	0608	93.7	. 8	5.5	. 985	1.0478	0.0375	1099	87.7	3.1	9.2	. 983		
Weight	. 1907	. 2701	. 5466	18.9	26.8	54.3	. 984	. 1219	. 2409	. 6436	12.1	23.9	64.0	· . 988		
Cervicale height	. 9800	.0014	. 0164	98.2	. 2	1.6	. 996	. 9712	.0018	. 0258	97.2	.2	2.6	. 996		
Tibiale height	. 9786	. 0119	0190	96.9	1.2	1.9	.972	. 9966	. 0266	0580	92.2	2.5	5.3	. 968		
Bitrochanteric diameter	. 2057	. 0189	. 7688	20.7	1.9	77.4	. 977	. 1686	.0025	.8244	16.9	.2	82.9	. 982		
Waist girth	3277	. 5020	. 7302	21.0	32.2	46.8	. 927	3758	.6362	. 6194	23.0	39.0	38.0	. 916		
Neck-hase girth	. 2991	. 4309	. 1902	32.5	46.8	20.7	. 894	. 2989	.3381	. 2833	32.5	36.7	30.8	. 893		
Armseye girth	. 2418	. 3679	. 3650	24.8	37.7	37.5	. 949	. 1755	. 3905	. 4010	18.1	40.4	41.5	. 944		
Upper-arm girth	4052	. 4028	. 9072	23.6	23.5	52.9	. 940	4293	. 4021	. 9169	24.5	23.0	52.5	. 935		
Posterior-arm length	. 8856	. 1006	0027	89.6	10.1	. 3	.974	. 9000	. 0903	0064	90.3	9.1	. 6	. 975		
Thigh girth	2585	. 0875	1.1147	17.7	6.0	76.3	. 970	2458	. 1382	1.0571	17.1	9.6	73.3	. 973		
Maximum calf girth	. 0636	. 1783	. 7206	6.6	18.5	74.9	. 950	. 0316	. 1694	. 7545	3.3	17.7	79.0	. 946		
Knee girth	. 2398	. 0800	. 6589	24.5	8.2	67.3	. 958	. 1823	. 1031	. 6867	18.8	10.6	70.6	. 954		
Crotch length	. 3281	. 0486	. 5870	34.0	5.0	61.0	. 941	. 2582	. 0442	. 6621	26.8	4.6	68.6	. 944		
Vertical trunk girth	. 4942	. 1782	. 3283	49.4	17.8	32.8	. 973	. 4842	. 1121	. 4084	48.2	11.2	40.6	. 977		

Height and Hip Measure Recommended as Basis for Sizes

Once the fact has been established that a length and a girth (or weight) are needed as a basis for sizing garments. the problem of which length to choose is not hard to solve from both a practical and statistical point of view. A study of the multiple correlations shows that of all the possible combinations of girths (or weight) with lengths. the best combinations are waist height (from the floor) and a girth (or weight): or stature and a girth (or weight). Since waist height has a smaller range of measurement than stature and since it is more difficult to take on a child, it would seem preferable to use stature. When a child's height is known, his other lengths can be predicted fairly accurately. For example, if a boy's stature is known, his hip height, waist height, arm length, and other lengths can be predicted with a variation of less than 1 inch on an average. The same holds true for girls. This, of course, is not surprising since some of these lengths form major parts of height.

However, the problem of which measurement to choose in order to predict the girths is slightly more complicated. The statistical analysis shows that the best predictor of all girths and lengths is either a combination of height and weight, or height and hip circumference. A poorer, but possible, combination is height and chest girth.

TABLE 7.—Multiple correlations and percentage reduction variations of the measurements to be predicted, obtained on the basis of (1) stature and weight combination, (2) stature and hip girth combination, (3) stature and chest girth combination

			В	oys					G	irls		
Measurements to be	Stature-weight		Stature-	-hip gi r th	Stature-	chest girth	Stature	-weight	Stature	-hip gi r th	Stature—chest girth	
predicted	Multiple correla- tion	Percent- age reduction										
Waist height	0. 990	98.1	0. 990	98.1	0.991	98.1	0.990	98.0	0, 990	98.1	0.990	98.1
Hip height	. 985	97.0	. 985	97.0	. 985	97.0	. 982	96.5	. 982	96.5	. 982	96.4
Weight			. 980	96.1	. 971	94.2			. 985	97.0	.972	94. 5
Stature												
Cervicale height	. 996	99.2	. 996	99.2	. 996	99.3	. 996	99.2	. 996	99.2	. 996	99.2
Tibiale height	. 972	94.5	. 972	94.5	. 972	94.5	. 968	93.6	. 968	93.7	. 968	93. 7
Bitrochanteric diameter	. 964	92.9	. 977	95.4	. 950	90.2	. 970	94.0	. 982	96.4	. 955	91.3
Chest girth	. 958	91.8	. 951	90.4			. 961	92.4	. 954	91.0		
Waist girth	.915	83.7	. 914	83.5	. 901	81.2	. 905	82.0	. 896	80.2	. 900	81.0
Hip girth	. 974	94.9			. 955	91.2	. 983	96.6			.962	92.5
Neck-base girth	. 893	79.7	. 884	78.2	. 893	79.7.	. 894	79.9	. 887	78.7	. 890	79.1
Armseye girth	. 946	89.4	. 942	88.7	. 943	88.8	. 940	88.4	. 936	87.7	. 937	87.8
Upper-arm girth	. 930	86.5	, 932	86.8	. 901	81.1	. 931	86.6	. 927	86.0	. 901	81. 2
Posterior arm length	. 974	94.8	. 974	94.8	.974	94.9	. 974	94.9	. 974	94, 9	. 975	95.0
Thigh girth	. 943	88.9	. 969	93. 9	. 911	83.1	. 961	92.3	. 972	94.5	. 929	86.3
Maximum ealf girth	. 948	89.9	. 948	89.8	. 925	85.6	. 948	89.8	. 945	89.2	. 923	85. 2
Knee girth	. 950	90.3	. 958	91.7	. 938	88.0	. 950	90.3	. 953	90.8	. 935	87.4
Crotch length	. 938	88.0	. 941	88.5	. 925	85.5	. 941	88.5	. 944	89.1	. 927	85.9
Vertical trunk girth	. 974	94. 9	. 971	94.3	. 968	93.6	. 977	95.4	. 976	95, 3	. 970	94.1

Table 7 gives the multiple correlations and the percentage reduction in the variations of the measurements to be predicted from the combinations of (1) stature and weight. (2) stature and girth of hips. and (3) stature and chest. The larger the multiple correlation the greater will be the percentage reduction in the variations of the measurements to be predicted. By comparing column 2 with column 4 and column 3 with 5. it will be seen that the multiple correlations and percentage reductions obtained on the combination of stature and weight of the boys do not on the whole differ from those obtained on the combination of stature and girth of hips. Thus, for the purpose of predicting the other measurements, stature and weight in combination is as effective as stature and girth of hips. On the other hand, by comparing column 4 with column 6, and column 5 with column 7, it will be noticed that the multiple correlations and percentage reduction obtained on the combination of stature and girth of hips are on the whole larger than those obtained on the combination of stature and girth of chest. Similar relationships will be observed between comparable columns relating to the girls' measurements.

Weight has been rejected for the very practical reason that every family does not possess a scale but usually has a tape measure. Hip girth has been chosen in preference to chest girth not only because of the results shown in table 7 but also for the following reasons:

A study on several thousand duplicate measurements taken by the measurers in the field shows that hip girth can be measured much more accurately than chest girth.

A study based on partial correlations (stature being held constant) has also shown that girth of hips explains the variations of the other girths better than does chest girth. This may be because girth of hips is more closely related to the fleshy and fatty parts of the body than chest girth.

The possibility of sizing garments on the basis of 3 measurements was also considered in this study even though it was realized that such a scheme would be very complicated. An analysis was undertaken to determine whether including a third measurement in the combination of 2 would yield sufficient information to warrant the sizing of garments on the bais of three measurements. This was done by setting up regression equations and calculating multiple correlations of every one of the 20 items on combination of 3 of these items. This analysis showed that introducing a third measurement into a combination of two does not

Third dimension unnecessary increase the multiple correlation to any appreciable extent. For instance, columns 8 and 15 of table 6 give the multiple correlations on combinations of stature,

chest girth, and hip girth. By comparing these columns with columns 4 and 10 of table 7, it will be noticed that the multiple correlations for corresponding measurements either remain the same when elest girth is included in the combination or are increased by a small amount. The slight increase occurs chiefly when an upper girth is predicted.

A combination of stature and hip measure is therefore recommended as a basis for sizes of patterns and garments. It should be noticed that the system suggested based on this combination refers to basic body measurements, taken next to the skin, and not to garment and patterns in which allowances must be made for undergarments.

Proposed Standard System Based on Height and Hip Measure

A system of sizes was obtained by marking off intervals of height and of hip measure on a distribution table giving the number of children having different combinations of height (stature) and hip girth. (See figs. 1 and 2 in pocket on back of cover.) The small figures on these charts represent the number of children who had a stature equal to the number of centimeters shown on the horizontal scale and a hip measure equal to the number of centimeters shown on the vertical seale.

For example, of the 835 boys who had a height of 120 centimeters, it will be found by locating the figure 120 on the horizontal scale and following it up vertically, that though they all had the same height, 1 boy had a hip measure of 50 centimeters; 1. a hip measure of 51 centimeters: 4, a hip measure of 55 centimeters; 16, a hip measure of 56 centimeters; 30, a hip measure of 57 centimeters, and so on. (Approximately $2\frac{1}{2}$ centimeters is equal to 1 inch: more exactly, 1 centimeter equals 0.3937 inch.) Similarly, the distribution of the heights of the 1,889 boys who had a hip measure of 60 centimeters can be obtained by locating the figure 60 on the vertical scale and following the line across. It will be found that although all these boys measured the same around their hips, 1 had a height of 101 centimeters; 2, a height of 103 centimeters: 1. a height of 104 centimeters; and 6, a height of 106 centimeters, and so forth.

Fifty-two height-hip intervals for boys and 49 for girls were drawn on these charts in the form of rectangles. The size of these rectangles and their position are given in figures 3 and 4. They are drawn both to inch and to centimeter scale. With few exceptions almost every child can be located in the proper rectangle by reading his height on the horizontal scale and his hip measure on the vertical scale. The rectangle in which he is thus placed determines the size he takes. A size consists of averages for each of 36 body measurements. These averages were calculated on the basis of the total number of children in a given rectangle, i, e., a height-hip interval.

Thirty-nine of these height-hip intervals for boys and 36 for girls are proposed as a standard system of sizing (tables 8 and 9). These represent 89.1 percent and 86.0 percent of the samples of boys and girls, respectively. Since the remaining intervals apply to such a small percentage of children. it would not be commercially practicable to include them in a standard, and tables for them are not given here. However, they will be of assistance to those manufacturers who have a demand for garments for children whose circumferences in relation to their height are much larger or much smaller than those of the majority of children. The rectangles were so chosen that the middle one for a given height interval contains the great-

Regulars and auxiliary sizes est number of cases. These central rectangles constitute the basis for the regular or group "C" sizes in the proposed standard. The rectangles below the

middle ones constitute the basis for "below regular" or "B" sizes since the children represented in these rectangles though located in the same height interval have smaller hip circumferences than those in the middle rectangles. The rectangles lying above the middle ones constitute the basis for the "above regular" or "D" sizes. For the same height interval, the children in these rectangles have bigger hips than those in the regular rectangles.

The regular sizes suggested include 49.8 percent of the total number of boys measured and 41.8 percent of the total number of girls. The "below regular" sizes include 17.8 percent and 22.5 percent of the boys and girls. respectively, and the "above regular" sizes 21.5 percent and 21.7 percent. respectively.

Figures 3 and 4 not only give the size of the intervals but also the approximate height (in inches) and the approximate hip measure (in inches) for each interval. They also show the percentage of children in each rectangle. calculated on the basis of the total number of children in that height interval. The measurements are given in a fraction of an inch. These may be rounded off by the manufacturers when the factor of allowance is taken into consideration.

It will be noticed that for a given height interval the change in the length measurements from one size to another is very slight. This is as expected since it has been shown that, given a child's height, his lengths are fairly well determined. A change in hip measure does not substantially affect the lengths.

Some of the lengths. notably height of hips and height of waist, instead of increasing as one proceeds from one size to another, in the same height interval, tend slightly to decrease. This only bears out the analysis which shows that for a constant height the correlation of hip height or waist height with hip girth is small and negative.

TABLE S.—Proposed system of boys' body measurements based on intervals of height and hip measure (symbols, i. e., B_1 , C_1 , D_1 , show corresponding intervals on fig. 3) and designated by approximate height and hip dimensions in inches

		B_1	C_1	\mathbb{D}_1
	Item No. and measurement	Height, 40 ¹ ⁄2; hip, 20	Height, 40 ¹ ⁄ ₂ ; hip, 21 ¹ ⁄ ₂	Height, 40½; hip, 23
1.	Waist heightinches	$23\frac{7}{8}$	24 19 ¹ /8	$24\frac{1}{8}$ 19
3.	Weightpounds	331/2	36^{1}_{2}	391/2
4.	Statureinches	403/8	401/2	405/8
ъ. б	Tihiale height do	32% 103/	$33\frac{74}{101}$	33% 101%
7.	Crotch heightdo	17	1678	1678
8.	Bitrochanteric diameterdo	71/4	75/8	77/8
9.	A ptorior chest width inches	251/2	26	251/2
10.11	Anterior waist lengthdo	8 ⁵ /8	85/8	. 83/4
12.	Posterior chest widthdo	9	914	91_{4}
13.	Posterior waist lengthdo	93/8 911/	93/8	91/2
14.	Seve depth do	21 /4 41/2	21 1/8 45/2	221/2 45/2
16.	Posterior hip arcdo	97/8	101/2	111/8
17.	Maximum chest girthdo			
18.	Woist girth	11	11%	11%
$\frac{19}{20}$.	Hip girth do	2014	211/2	2234
21.	Neck-hase girthdo	105/8	107/8	11
22.	Shoulder lengthdo	25/8	23/4	$2\frac{3}{4}$
23.	Upper-arm girth do	978	91/8 63/	10 ¹ /4 6 ³ /
25.	Elhow girthdo	63/4	7~*	714
26.	Upper posterior arm lengthdo	71/8	8	8
27.	Truph line do	131/8	141/8	141/4
29.	Waist to hipsdo	5	51/8	51/2
30.	Thigh girthdo	111/4	$12\frac{1}{8}$	$13\frac{1}{8}$
31.	Maximum calf girthdo	77/8	83/8	83/4
32.	Total crotch length do	1634	1716	18
34.	Anterior crotch lengthdo	81/2	834	- ğ
35.	Extreme henddo	161/2	17	171/4
36.	Percentage 1 Dercent	30%	61	38
		B ₂	C ₂	Do
		B ₂	C ₂	D ₂
	Item No. and measurement	B ₂ Height, 42½; hip, 21	C ₂ Height, 43; hip, 22	D ₂ Height, 43; hip, 23½
1.	Item No. and measurement Waist heightinches.	B ₂ Height, 42½; hip, 21 255%	C ₂ Height, 43; hip, 22 2534	D ₂ Height, 43; hip, 23½ 25½
 1. 2.	Item No. and measurement Waist height	B_2 Height, $42\frac{1}{2};$ hip, 21 $25\frac{5}{6}$ $20\frac{1}{2}$	C ₂ Height, 43; hip, 22 2534 2012	D ₂ Height, 43; hip, 23½ 25% 205%
1. 2. 3. 4	Item No. and measurement Waist height	B_2 Height, $42\frac{1}{2}$; hip, 21 $25\frac{5}{8}$ $20\frac{1}{2}$ 37 4956	C ₂ Height, 43; hip, 22 2534 2012 40 4274	D ₂ Height, 43; hip, 23 ¹ / ₂ 25 ⁷ / ₈ 20 ⁵ / ₈ 44 431/ ₄
· 1. 2. 3. 4. 5.	Item No. and measurement Waist height inches. Hip height do Weight pounds Stature inches Cervicale height do.	B ₂ Height, 42½; hip, 21 255% 201/2 37 425% 35	C ₂ Height, 43; hip, 22 2534 201/2 40 427% 3534	D_2 Height, 43; hip, 231/2 257/8 205/8 44 431/8 351/8
1. 2. 3. 4. 5. 6.	Item No. and measurement Waist height	B ₂ Height, 42½; hip, 21 255% 201/2 37 425% 35 111%	$\begin{array}{c} C_2\\ \hline \\ Height,\\ 43;\\ hip, 22\\ \hline \\ 20142\\ 40\\ 4274\\ 3514\\ 3514\\ 1114\\ \end{array}$	$\begin{array}{c} D_2 \\ \hline Height, \\ 43; \\ hip, 23\frac{1}{2} \\ \hline 257\frac{1}{56} \\ 2056 \\ 44 \\ 43\frac{1}{56} \\ 35\frac{1}{2} \\ 11\frac{1}{4} \end{array}$
1. 2. 3. 4. 5. 6. 7. 8	Item No. and measurement Waist heightdo Hip heightdo Weightpounds Statureinches Cervicale heightdo Tibiale heightdo Crotch heightdodo	$\begin{array}{c} B_2 \\ \hline \\ Height, \\ 42\frac{1}{2}; \\ hip, 21 \\ \hline \\ 25\frac{5}{6} \\ 20\frac{1}{2} \\ 37^{2} \\ 35 \\ 11\frac{1}{8} \\ 18\frac{3}{6} \\ 18^{3} \\ 712 \end{array}$	$\begin{array}{c} C_2\\ \hline \\ Height, \\ 43;\\ hip, 22\\ \hline \\ 2012\\ 40\\ 427\\ 3514\\ 1114\\ 1814\\ 1814\\ 1814\\ \\ 1814\\ \end{array}$	$\begin{array}{c} D_2 \\ \hline Height, \\ 43; \\ hip, 23\frac{1}{2} \\ 257\frac{1}{8} \\ 2058 \\ 44 \\ 431\frac{1}{8} \\ 35\frac{1}{2} \\ 11\frac{1}{4} \\ 18\frac{1}{4} \\ 8\frac{1}{4} \end{array}$
1. 2. 3. 4. 5. 6. 7. 8. 9.	Item No. and measurement Waist height	$\begin{array}{c} B_2 \\ \hline \\ Height, \\ 421_{25}; \\ hip, 21 \\ \hline \\ 255_{5} \\ 201_{2} \\ 37 \\ 425_{8} \\ 35 \\ 111_{5} \\ 183_{8} \\ 715_{9} \\ 241_{5} \end{array}$	$\begin{array}{c} C_2\\ \hline \\ Height,\\ 43;\\ hip, 22\\ \hline \\ 203/2\\ 40\\ 427<\\ 351/4\\ 113/4\\ 113/4\\ 181/4\\ 776\\ 251/6\\ \end{array}$	$\begin{array}{c} D_2\\ \hline Height,\\ 43;\\ hip, 231/2\\ \hline 257/8\\ 205/6\\ 44\\ 431/8\\ 351/2\\ 113/4\\ 181/4\\ 181/4\\ 81/4\\ 286 \end{array}$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10. \end{array}$	Item No. and measurement Waist height do Hip height do Weight pounds Stature inches Cervicale height do Tibiale height do Tibiale height do Bitrochanteric diameter do Shoulder slope degrees Anterior chest width inches	$\begin{array}{c} B_2\\ \hline \\ Height,\\ 42^{1}S;\\ hip, 21\\ \hline \\ 25^{5}\langle \\ 20^{1/2}\\ 37\\ 42^{5}\langle \\ 35\\ 111_{18}\\ 8\\ 35\\ 71^{1}2\\ 24^{1}\lambda^{2}\\ 7^{1}2\\ 24^{1}\lambda^{2}\\ 7^{1}2\\ 7^{1$	$\begin{array}{c} C_2\\ \hline \\ Height,\\ 43;\\ hip, 22\\ \hline \\ 2012\\ 40\\ 427\leqslant\\ 3534\\ 1134\\ 77\%\\ 2532\\ 8\\ \end{array}$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip, } 23 \frac{1}{2} \\ 20 \frac{5}{8} \\ 44 \\ 43 \frac{5}{8} \\ 35 \frac{1}{8} \\ 11 \frac{1}{4} \\ 18 \frac{1}{4} \\ 8 $
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Statureinches Cervicale heightdo Tibiale heightdo Tibiale heightdo Bitrochanteric diameterdo Shoulder slopedegrees. Anterior chest widthinches Anterior chest widthinches	$\begin{array}{c} B_2 \\ \hline Height, \\ 42\frac{1}{2}; \\ hip, 21 \\ \hline 25^{5} \\ 201^{4} \\ 37' \\ 42^{5} \\ 37' \\ 11^{5} \\ 18^{3} \\ 18^{3} \\ 18^{3} \\ 18^{3} \\ 7^{1} \\ 241^{4} \\ 57' \\ 7^{3} \\ 50' \\ \end{array}$	$\begin{array}{c} C_2\\ \hline Height,\\ 43;\\ hip, 22\\ \hline \\ 2534\\ 2012\\ 40\\ 427\\ 40\\ 427\\ 40\\ 1134\\ 1134\\ 1814\\ 754\\ 2532\\ 8\\ 9\\ 9\\ 01 \\ \end{array}$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip, } 233_2 \\ 257_4 \\ 205_8 \\ 44 \\ 433_8 \\ 353_2 \\ 113_4 \\ 183_4 \\ 834_2 \\ 834_4 \\ 84_4 \\ 84_4 \\ 84_4 \\ 934 \\$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \end{array}$	Item No. and measurement Waist height	$\begin{array}{c} {\bf B}_2\\ {\bf Height,}\\ 42^{5}{2;}\\ {\rm hip, 2l}\\ \hline\\ 237\\ 42^{5}{4}\\ 20^{3}{2}\\ 35\\ 11^{1}{2}\\ 42^{5}{4}\\ 24^{3}{2}\\ 734\\ 734\\ 856\\ 84\\ 944\\ 956\\ 944\\ 956\\ 944\\ 956\\ 946\\ 956\\ 956\\ 956\\ 946\\ 956\\ 956\\ 956\\ 956\\ 956\\ 956\\ 956\\ 95$	$\begin{array}{c} C_2\\ \hline \\ Height,\\ 43;\\ hip, 22\\ \hline \\ 2534\\ 2032\\ 4274\\ 3534\\ 4274\\ 3534\\ 1134\\ 1134\\ 1134\\ 1134\\ 1134\\ 8353\\ 8\\ 9534\\ 9534\\ 976\\ 954\\ 976\\ \end{array}$	$\begin{array}{c} D_2\\ Height,\\ {}^{43;}_{43;}\\ hip, 23_{12}\\ 25_{14}^{5_{14}}\\ 20_{14}^{5_{14}}\\ 44_{14}\\ 43_{14}^{5_{14}}\\ 35_{14}^{5_{14}}\\ 11_{14}^{5_{14}}\\ 18_{14}^{5_{14}}\\ 8_{14}^{5_{14}}\\ 9_{16}^{5_{16}}\\ 9_{16}^{5_{16}}\\ 9_{10}^{5_{16}}\\ 10\\ \end{array}$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \end{array}$	Item No. and measurement Waist height inches. Hip height do Weight pounds Stature inches Cervicale height do Tibiale height do Tibiale height do Bitrochanteric diameter do Bitrochanteric diameter do Shoulder slope degrees. Anterior chest width inches Anterior chest width do. Posterior chest width do. Posterior chest width do. Posterior chest width do.	$\begin{array}{c} B_2 \\ \hline Height, \\ 425\%; \\ hip, 21 \\ \hline 25\% \\ 20\% \\ 37 \\ 42\% \\ 35 \\ 35 \\ 11\% \\ 18\% \\ 7\% \\ 24\% \\ 7\% \\ 24\% \\ 9\% \\ 9\% \\ 9\% \\ 21\% \\ 21\% \\ 21\% \\ \end{array}$	$\begin{array}{c} C_2\\ \hline \\ Height, \\ 43;\\ hip, 22\\ \hline \\ 2012\\ 40\\ 427\leqslant\\ 3534\\ 1134\\ 1834\\ 77&\\ 2534\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 4\\ 9\\ 9\\ 221&$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip, } 23\frac{1}{20} \\ 25\frac{7}{8} \\ 2058 \\ 44 \\ 43\frac{1}{8} \\ 35\frac{1}{2} \\ 11\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 26\frac{1}{6} \\ 8\frac{1}{4} \\ 9\frac{1}{6} \\ 9\frac{1}{2} \\ 23\frac{1}{4} \end{array}$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \\ 15. \\ \end{array}$	Item No. and measurement Waist height do. Hip height do. Weight pounds Stature inches Cervicale height do. Tibiale height do. Tibiale height do. Shoulder slope degrees Anterior chest width inches Anterior chest width do. Posterior chest width do. Posterior chest width do. Posterior waist length do. Chest girth at armscye do. Seve depth do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%, \\ hip, 21 \\ \hline \\ 255\%, \\ 30^{1/2}, \\ 37^$	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline 2012\\ 2012\\ 40\\ 427\\ 3534\\ 1134\\ 1814\\ 1814\\ 77\\ 255\\ 2\\ 9\\ 9\\ 914\\ 97\\ \\ 221\\ \\ 221\\ \\ 221\\ \\ 43\\ 4\\ 4\\ 3\\ 4\\ 4\\ 3\\ 4\\ 4\\ 3\\ 4\\ 4\\ 3\\ 4\\ 4\\ 4\\ 4\\ 3\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip, } 23\frac{1}{2} \\ 25\frac{7}{4} \\ 20\frac{5}{8} \\ 44i \\ 43\frac{1}{3} \\ 35\frac{1}{3} \\ 35\frac{1}{3} \\ 11\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 9\frac{1}{8} \\ 9\frac{1}{4} \\ 10i \\ 4\frac{1}{4} \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 8i \\ 8i \\ 4\frac{1}{4} \\ 8i \\ 8$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \\ 15. \\ 16. \\ 17 \end{array}$	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Statureinches Cervicale heightdo Tibiale heightdo Tibiale heightdo Bhuider slopedegrees. Anterior chest widthinches Anterior chest widthdo Posterior waist lengthdo Chest girth at armscyedo Scye depthdo Posterior hip arcdo	$\begin{array}{c} B_2 \\ \hline Height, \\ 42\frac{1}{2}, \\ hip, 21 \\ \hline 225\frac{1}{2}, \\ 20\frac{1}{2}, \\ 37\frac{1}{2}, \\ 20\frac{1}{2}, \\ 37\frac{1}{2}, \\ 37\frac{1}$	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline \\ 2032 \\ 40\\ 427_{40}\\ 3534\\ 1134\\ 1834\\ 1834\\ 934\\ 934\\ 934\\ 934\\ 107_{8}\\ 107_{8}\\ \end{array}$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip,} 2332 \\ 255\% \\ 445 \\ 435\% \\ 3552 \\ 1154 \\ 8542 \\ 124 \\ 8542 \\ 934 \\ 10 \\ 2354 \\ 10 \\ 2354 \\ 115\% \\ 115\% \end{array}$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \\ 15. \\ 16. \\ 17. \\ 18. \end{array}$	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Statureinches. Cervicale heightdo Tibiale heightdo Tibiale heightdo Bitrochanteric diameterdo Shoulder slopedecrees. Anterior chest widthinches Anterior chest widthdo Posterior chest widthdo Posterior waist lengthdo Posterior waist lengthdo Posterior waist lengthdo Posterior hest widthdo Posterior hest girth at armscyedo Scye depthdo Posterior hip arcdo Maximum chest girthdo Maximum chest girthdo	$\begin{array}{c} {\bf B}_2\\ \hline \\ {\bf Height,}\\ 42\frac{1}{2}5;\\ hip, 21\\ \hline \\ 20\frac{1}{2}25\frac{1}{2};\\ 20\frac{1}{2}237\\ 42\frac{1}{2}37\\ 11\frac{1}{2};\\ 42\frac{1}{2};\\ 18\frac{1}{2};\\ 24\frac{1}{2};\\ 24\frac{1}{2};\\ 83\frac{1}{2};\\ 94\frac{1}{2};\\ 94\frac{1}{2};\\ 94\frac{1}{2};\\ 94\frac{1}{2};\\ 10\frac{1}{2};\\ 10\frac{1}{$	$\begin{array}{c} C_2\\ \hline \\ Height, \\ 43; \\ hip, 22\\ \hline \\ 2534\\ 2032\\ 40\\ 4274\\ 0\\ 4274\\ 3534\\ 1134\\ 1834\\ 1134\\ 1834\\ 2532\\ 8\\ 9\\ 9\\ 434\\ 4978\\ 2218\\ 434\\ 40\\ 1078\\ \hline \end{array}$	$\begin{array}{c} {\rm D}_2\\ {\rm Height,}\\ {}^{43;}_{43;}\\ {\rm hip,233_2}\\ 257_4\\ 2056\\ 44\\ 433_4\\ 353_2\\ 113_4\\ 183_4\\ 183_4\\ 183_4\\ 83_4\\ 93_4\\ 93_4\\ 93_4\\ 10\\ 233_4\\ 47_6\\ 10\\ 233_4\\ 115_8\\ 115_8\\ 123_4\\$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.10.111.213.14.15.16.17.18.19. \end{array}$	Item No. and measurement Waist height inches. Hip height do. Weight pounds Stature inches Cervicale height do. Tibiale height do. Tibiale height do. Bitrochanteric diameter do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior chest width inches Anterior chest width do. Posterior waist length do. Posterior waist length do. Chest girth at amscye do. Scye depth ip arc. do. Maximum chest girth do. Anterior chest arc do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%; \\ hip, 21 \\ \hline \\ 255\% \\ 305 \\ 37 \\ 425\% \\ 357 \\ 11\% \\ 18\% \\ 358 \\ 357 \\ 11\% \\ 18\% \\ 357 \\ 244\% \\ 357 \\ 244\% \\ 357 \\ 244\% \\ 10\% \\ 1$	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ hip, 22\\ \hline 2012 \\ 2012 \\ 40\\ 427 \\ 3514\\ 1114\\ 77 \\ 2512\\ 2512\\ 9\\ 9\\ 914\\ 978\\ 2215 \\ 434\\ 103 \\ 434\\ 103 \\ 434\\ 103 \\ 434\\ 203 \\ 8 \end{array}$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip, } 23\frac{1}{2} \\ 25\frac{7}{8} \\ 2056 \\ 44 \\ 35\frac{1}{2} \\ 35\frac{1}{2} \\ 11\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 8\frac{1}{4} \\ 9\frac{1}{8} \\ 10 \\ 23\frac{1}{4} \\ 4\frac{1}{8} \\ 11\frac{5}{8} \\ 11\frac{5}{8} \\ 23\frac{1}{4} \\ 4\frac{1}{2} \\ 21\frac{1}{4} \\ 21$
$\begin{array}{c} 1. 2. 3. 4. 5. 6. 7. 8. 9. 101. 112. 13. 14. 15. 16. 17. 18. 19. 20. \end{array}$	Item No. and measurement Waist height inches. Hip height do Weight do Weight do Tibiale height do Tibiale height do Tibiale height do Tibiale height do Shoulder slope degrees Anterior chest width inches Anterior chest width do Posterior chest width do Posterior chest width do Chest girth at armscye do Chest girth at armscye do Posterior hip arc do Posterior thest arm do Posterior chest arc do Posterior thest arc do Maximum chest girth do Waist girth do	$\begin{array}{c} \mathbf{B}_2 \\ \\ \mathbf{Height}, \\ 425\%, \\ 425\%, \\ 100, 21, 200, 200, 200, 200, 200, 200, $	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline \\ 201_2\\ 40\\ 427_4\\ 353_4\\ 113_4\\ 113_4\\ 183_4\\ 183_4\\ 253_2\\ 8\\ 9\\ 9\\ 423_4\\ 223_5\\ 223_5\\ 43_4\\ 107_8\\ \hline \\ 113_4\\ 223_5\\ 223_5\\ 223_5\\ 223_4\\ 223_5\\ 223_4\\ 223_5\\ 223_4\\ 223_5\\ 223_4\\ 223_5\\ 223_5\\ 223_4\\ 223_5\\ 233_5\\ 223_5\\ 233_5\\ $	$\begin{array}{c} {\rm D}_2\\ {\rm Height,}\\ 43;\\ hip, 23 \space{-25}{4}\\ 25 \space{-25}{4}\\ 43 \space{-25}{4}\\ 43 \space{-25}{4}\\ 35 \space{-25}{4}\\ 11 \space{-25}{4}\\ 83 \space{-25}{4}\\ 83 \space{-25}{4}\\ 83 \space{-25}{4}\\ 83 \space{-25}{4}\\ 93 \space{-25}{4}\\ 10 \space{-25}{4}\\ 23 \space{-25}{4}\\ 47 \space{-25}{4}\\ 11 \space{-25}{4}\\ 11 \space{-25}{4}\\ 23 \space{-25}{4}\\ 21 \space{-25}{4}\\ 22 \space{-25}{4}\\ 22 \space{-25}{4}\\ 23 -2$
1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22	Item No. and measurement Waist height inches. Hip height do Weight do Weight do Use of the second seco	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%, \\ hip, 21 \\ \hline \\ 255\%, \\ 20\%2, \\ 37\%, \\ 35\%, \\ 35\%, \\ 35\%, \\ 37\%, \\ 20\%2, \\ 37\%, \\ $	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline \\ 2032 \\ 40\\ 427 \\ 40\\ 427 \\ 40\\ 423 \\ 534\\ 4114\\ 1134\\ 1134\\ 93\\ 2215\\ 2215\\ 49\\ 934\\ 107\\ \\ 2215\\ 2215\\ 1134\\ 107\\ \\ 2095\\ 221$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ \text{hip,} 2332 \\ 255\% \\ 44 \\ 3532 \\ 1154 \\ 8532 \\ 1154 \\ 8542 \\ 934 \\ 10 \\ 2314 \\ 10 \\ 2314 \\ 10 \\ 2314 \\ 115 \\ 115 \\ 115 \\ 2114 \\ 235 \\ 113 \\ 225 \\ 2114 \\ 235 \\ 97 \\ 27 \\ 27 \\ 27 \\ 27 \\ 27 \\ 27 \\ 27$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \\ 15. \\ 16. \\ 17. \\ 18. \\ 19. \\ 201. \\ 222 \\ 23. \end{array}$	Item No. and measurement Waist height inches. Hip height do. Weight pounds Stature inches Cervicale height do. Crotch height do. Crotch height do. Bitrochanteric diameter do. Bitrochanteric diameter do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior waist length do. Chest girth at armscye do. Scyc depth do. Cotest girth at armscye do. Scyc depth do. Maximum chest girth do. Anterior chest arc. do. Shoulder length do.	$\begin{array}{c} B_2 \\ \hline \\ Height, \\ 423 \\ 100 \\ 425 \\ 100$	$\begin{array}{c} C_2\\ \hline \\ Height, \\ 43; \\ hip, 22\\ \hline \\ 2012 \\ 40\\ 427 \\ 3534\\ 1134\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 103\\ 2215\\ 434\\ 103\\ 2215\\ 434\\ 103\\ 434\\ 103\\ 2215\\ 434\\ 103\\ 434\\ 103\\ 221\\ 434\\ 103\\ 434\\ 103\\ 103\\ 334\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{1}{5} \\ 20 \frac{5}{6} \\ 44 \\ 35 \frac{1}{3} \\ 35 \frac{1}{3} \\ 11 \frac{1}{4} \\ 8 \frac{1}{4} \\ 26 \\ 8 \frac{1}{4} \\ 9 \frac{1}{3} \\ 9 \frac{1}{3} \\ 10 \\ 23 \frac{1}{4} \\ 4 \frac{1}{3} \\ 11 \frac{5}{6} \\ 21 \frac{1}{4} \\ 21 \frac{1}{4} \\ 21 \frac{1}{3} \\ 10 \frac{5}{4} \\ 10 \frac{5}{4} \end{array}$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9\\ 9.1.112.13.14.5.16.17.18.19.20.221.223.24. \end{array}$	Item No. and measurement Waist height inches. Hip height do. Weight pounds Stature inches Cervicale height do. Tibiale height do. Tibiale height do. Shoulder slope degrees. Anterior chest width inches Anterior chest width do. Posterior thip arc. Maximum chest girth do. Anterior chest arc do. Maximum chest girth do. Anterior chest arc do. Maximum chest girth do. Anterior chest arc do. Maximum chest girth do. Anterior chest arc do. Mip girth do. Shoulder length do. Shoulder length do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%; \\ hip, 21 \\ \hline \\ 255\% \\ 37 \\ 425\% \\ 357 \\ 11\% \\ 835 \\ 357 \\ 11\% \\ 837 \\ 92\% \\ 241\% \\ 75\% \\ 241\% \\ 75\% \\ 241\% \\ 10\% \\ 11\% \\ 10\% \\ 10\% \\ 10\% \\ 21\% \\ 21\% \\ 10\% \\ 37\% \\ 3$	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ 10012 \\ 20142 \\ 20142 \\ 20142 \\ 20142 \\ 407 \\ 427 \\ 407 \\ 42$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ 10, 23 \\ 257 \\ 33; \\ 205 \\ 44 \\ 431 \\ 351 \\ 351 \\ 113 \\ 431 \\ 351 \\ 211 \\ 44 \\ 81 \\ 426 \\ 81 \\ 99 \\ 43 \\ 10 \\ 231 \\ 44 \\ 115 \\ 81 \\ 41 \\ 91 \\ 321 \\ 44 \\ 115 \\ 81 \\ 115 \\ 81 \\ 115 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 67 \\ 81 \\ 105 \\ 105 \\ 67 \\ 81 \\ 105 \\$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9\\ 9.0.111.13.14.5.16.7.18.19.20.21.223.24.25. \end{array}$	Item No. and measurement Waist height	$\begin{array}{c} \mathbf{B}_2 \\ \\ \mathbf{Height}, \\ 425\%, \\ 425\%, \\ 100, 21, 200, 200, 200, 200, 200, 200, $	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline 2534\\ 2012\\ 40\\ 4274\\ 3534\\ 1114\\ 1134\\ 1814\\ 1814\\ 77\\ 2552\\ 8\\ 9\\ 914\\ 97\\ 2215\\ 221$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ hip, 23/2 \\ 257/4 \\ 2058 \\ 44 \\ 43/8 \\ 35/9 \\ 35/9 \\ 11/4 \\ 8/4 \\ 18/4 \\ 8/4 \\ 9/8 \\ 9/8 \\ 9/8 \\ 9/8 \\ 10 \\ 23/4 \\ 47/8 \\ 115/8 \\ 115/8 \\ 21/4 \\ 235/8 \\ 115/8 \\ 21/4 \\ 235/8 \\ 115/8 \\ 115/8 \\ 67/8 \\ 71/8 \\ 1005/8 \\ 67/8 \\ 71/8 \\ 1005/8 \\ 67/8 \\ 71/8 \\ 1005/8 \\ 1005/8 \\ 1$
$\begin{array}{c} 1.2\\2.3.4\\5.6\\7.8\\9.10.112\\13.14.15\\16.17\\18.19.20.223\\24.25.226\\27\end{array}$	Item No. and measurement Waist height inches. Hip height do. Weight do. Weight do. Understand do. Weight do. Weight do. Weight do. Weight do. Weight do. Weight do. Weight do. Tibiale height do. Tibiale height do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior chest width inches Anterior chest width do. Posterior waist length do. Posterior thest width do. Posterior thest width do. Posterior thest width do. Posterior thest width do. Posterior thip arc. Maximum chest girth do. Anterior chest arc. Maximum chest girth do. Neck-base girth do. Neck-base girth do. Armscye girth do. Lipogrith do. Upper posterior arm length do. Upper posterior arm length do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%, \\ hip, 21 \\ \hline \\ 25\% \\ 30\% \\ 35 \\ 35 \\ 35 \\ 35 \\ 37 \\ 42\% \\ 37 \\ 24\% \\ 7\% \\ 24\% \\ 37\% \\ 9\% \\ 21\% \\ 9\% \\ 41\% \\ 19\% \\ 19\% \\ 21\% \\ 10\% \\ 21\% \\ 6\% \\ 6\% \\ 7 \\ 8\% \\ 14\% \\ 10\% \\ 1$	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline \\ 203 \\ 40\\ 427 \\ 40\\ 427 \\ 435 \\ 40\\ 427 \\ 435 \\ 40\\ 113 \\ 4\\ 113 \\ 4\\ 113 \\ 4\\ 103 \\ 223 \\ 6\\ 223 \\ 9\\ 91 \\ 4\\ 103 \\ 4\\ 103 \\ 4\\ 103 \\ 4\\ 113 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 23/2 \\ 25\% \\ 44 \\ 351/2 \\ 111/4 \\ 83/4 \\ 118/4 \\ 83/4 \\ 9/8 \\ 40 \\ 23/4 \\ 101 \\ 23/4 \\ 101 \\ 23/4 \\ 101 \\ 23/4 \\ 115 \\ 6 \\ 121 \\ 211/4 \\ 235 \\ 81/2 \\ 113 \\ 6 \\ 71/5 \\ 81/2 \\ 215 \\ 113 \\ 81/4 \\ 235 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115 \\ 81/2 \\ 115$
$\begin{array}{c} 1.2 \\ 2.3 \\ 4.5 \\ 6.7 \\ 8.9 \\ 101 \\ 112 \\ 131 \\ 14. \\ 15. \\ 16. \\ 17. \\ 18. \\ 201 \\ 222 \\ 23. \\ 24. \\ 25. \\ 27. \\ 28. \\ 27. \\ 28. \\ \end{array}$	Item No. and measurement Waist height inches. Hip height do. Weight pounds Stature inches Cervicale height do. Crotch height do. Crotch height do. Bitrochanteric diameter do. Bitrochanteric diameter do. Bitrochanteric diameter do. Shoulder slope derrees. Anterior waist length do. Chest girth at amscye do. Scyc depth as do. Cotest girth at armscye do. Scyc depth do. Chest girth at armscye do. Scyc depth do. Maximum chest girth do. Anterior chest width. Hip girth. Meck-base girth do. Shoulder length do. Shoulder length do. Shoulder length do. String girth. Hip girth. Construction do. Shoulder length do. Shoulder length do. Total posterior arm length. Construction arm length. Const	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height,} \\ 425\%; \\ hip, 21 \\ \hline \\ 25\% \\ 37 \\ 42\% \\ 37 \\ 35 \\ 11\% \\ 37 \\ 42\% \\ 42\% \\ 37 \\ 42\% \\ 11\% \\ 19\% \\ 24\% \\ 9\% \\ 9\% \\ 9\% \\ 10\% \\ 434 \\ 10\% \\ 424 \\ 10\% \\ 113\% \\ 10\% \\ 21 \\ 10\% \\ 21 \\ 10\% \\ 113\% \\ 10\% \\ 21 \\ 10\% \\ 10$	$\begin{array}{c} C_2\\ \hline \\ Height, \\ 43; \\ hip, 22\\ \hline \\ 201_2 \\ 40\\ 427_4\\ 353_4\\ 113_4\\ 113_4\\ 183_4\\ 183_4\\ 183_4\\ 183_4\\ 183_4\\ 233_4\\ 233_4\\ 073_6\\ 221_5\\ 223_5\\ 223_5\\ 223_5\\ 223_4\\ 103_4\\ 103_4\\ 103_4\\ 234_4\\ 103_4\\ 234_5\\ 2$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{7}{8} \\ 20 \frac{5}{8} \\ 44 \\ 43 \frac{1}{3} \\ 35 \frac{1}{3} \\ 11 \frac{1}{4} \\ 8^{\frac{1}{4}} \\ 26 \\ 8^{\frac{1}{4}} \\ 9^{\frac{1}{3}} \\ 9^{\frac{1}{3}} \\ 10 \\ 23 \frac{1}{4} \\ 4^{\frac{1}{3}} \\ 11 \frac{5}{8} \\ 21 \frac{1}{4} \\ 23 \frac{6}{67} \\ 71 \frac{1}{5} \\ 8 \frac{1}{5} \\ 5 \frac{1}{3} \\ 5 $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9\\ 9.0.111.12.13.145.16.1719.20.212.223.24.25.226.223.2926\end{array}$	Item No. and measurement Waist height inches. Hip height do Weight pounds Stature inches Cervicale height do Tibiale height do Tibiale height do Tibiale height do Bitrochanteric diameter do Shoulder slope degrees Anterior chest width inches Anterior chest width do Posterior chest width do Posterior chest width do Posterior chest width do Chest girth at amscye do Scye depth do Anterior chest arc do Maximum chest girth do Anterior chest arc do Maximum chest girth do Anterior chest arc do Maximum chest girth do Anterior chest arc do Hip girth do Steps eight do Shoulder length do Steps girth do Steps girth do Steps girth do Steps girth do Steps girth do Steps girth do Total posterior arm length do Trunk line do Waist to hips do	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%; \\ 425\%; \\ 425\%; \\ 2014, \\ 37, \\ 2014, \\ 37, \\ 35, \\ 35, \\ 35, \\ 35, \\ 35, \\ 37, \\ 42\%; \\ 35, \\ 21\%; \\ 74\%; \\ 9$	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ 2012\\ 2012\\ 2014\\ $	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{1}{3} \\ 44 \\ 35 \frac{1}{3} \\ 35 \frac{1}{3} \\ 11 \frac{1}{3} \\ 8 \frac{1}{4} \\ 26 \\ 9 \frac{1}{3} \\ 8 \frac{1}{4} \\ 28 \frac{1}{4} \\ 9 \frac{1}{3} \\ 28 \frac{1}{4} \\ 23 \frac{1}{3} \\ 4 \frac{1}{3} \\ 23 \frac{1}{4} \\ 23 $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.0.111.12.13.14.15.16.1719.20.221.223.24.25.229.30.111.12.23.24.25.311.11.19.20.21.223.24.25.311.11.11.11.11.11.11.11.11.11.11.11.11$	Item No. and measurement Waist height	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%, \\ 425\%, \\ 100, 100, 100, 100, 100, 100, 100, 1$	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ 100000000000000000000000000000000000$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 23/2 \\ 257/4 \\ 2058 \\ 44 \\ 43/3 \\ 351/2 \\ 111/4 \\ 83/4 \\ 26 \\ 81/4 \\ 91/8 \\ 81/4 \\ 91/8 \\ 81/4 \\ 115/8 \\ 101 \\ 231/4 \\ 47/8 \\ 101 \\ 231/4 \\ 47/8 \\ 115/8 \\ 211/4 \\ 235/8 \\ 115/8 \\ 67/8 \\ 71/2 \\ 105/8 \\ 67/8 \\ 71/2 \\ 105/8 \\ 67/8 \\ 71/2 \\ 105/8 \\ 67/8 \\ 71/2 \\ 105/8 \\ 105/8 \\ 93/4 \\ 105/8 \\ 100/8 \\ 10$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 112. \\ 13. \\ 14. \\ 15. \\ 17. \\ 18. \\ 19. \\ 22. \\ 24. \\ 25. \\ 26. \\ 27. \\ 28. \\ 29. \\ 30. \\ 32. \\ \end{array}$	Item No. and measurement Waist height inches. Hip height do Weight do Weight do Stature inches Stature do Tibiale height do Tibiale height do Bitrochanteric diameter do Shoulder slope degrees Anterior chest width inches Anterior chest width do. Posterior thest width do. Posterior hip arc do. Maximum chest girth do. Anterior chest arc. do. Waist girth. do. Neck-base girth do. Neck-base girth do. Typer posterior arm length do. Trunk line do. Thigh girth do. Thigh girth do. Thigh girth do. Maximum calf girth do. Maximum calf girth do. Maximum calf girth do. Maximum calf girth do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 4249; \\ hip, 21 \\ \hline \\ 2554 \\ 2052 \\ 37 \\ 4258 \\ 35 \\ 1152 \\ 37 \\ 4258 \\ 35 \\ 1152 \\ 1152 \\ 2452 \\ 2452 \\ 2452 \\ 2452 \\ 2452 \\ 1054$	$\begin{array}{c} C_2\\ \hline Height, \\ 43;\\ hip, 22\\ \hline \\ 203 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ 427 \\ 407 \\ $	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ 100, 231/2 \\ 257/4 \\ 205/6 \\ 44 \\ 433/6 \\ 353/6 \\ 353/6 \\ 353/6 \\ 353/6 \\ 353/6 \\ 113/4 \\ 91/6 \\ 83/4 \\ 10 \\ 231/4 \\ 47/8 \\ 10 \\ 231/4 \\ 47/8 \\ 10 \\ 231/4 \\ 47/8 \\ 10 \\ 231/4 \\ 115/6 \\ 67 \\ 81/2 \\ 211/4 \\ 235/6 \\ 113/6 \\ 57 \\ 81/2 \\ 105/6 \\ 57 \\ 81/2 \\ 53/6 \\ 53/6 \\ 53/6 \\ 81/2 \\ 95/6 \\ $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 10.111.13.144.155.17.18.19.221.223.24.25.2627.233.33.33.33.33.33.33.33.33.33.33.33.33$	Item No. and measurement Waist height inches. Hip height do. Weight pounds Stature inches Cervicale height do. Crotch height do. Crotch height do. Bitrochanteric diameter do. Bitrochanteric diameter do. Bitrochanteric diameter do. Shoulder slope derrees. Anterior waist length do. Posterior chest width inches Anterior waist length do. Chest girth at amscye do. Scye depth do. Scye depth do. Scye depth do. Scye depth do. Maximum chest girth do. Hip girth do. Shoulder length do. Shoulder length do. Shoulder length do. Total posterior arm length do. Trunk line do. Waist to hips. Mo. Maximum calf girth do. Total crotch length do.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%; \\ hip, 21 \\ \hline \\ 25\% \\ 37 \\ 42\% \\ 37 \\ 35 \\ 11\% \\ 37 \\ 42\% \\ 42\% \\ 7\% \\ 37 \\ 42\% \\ 10\% \\ 44\% \\ 9\% \\ 9\% \\ 9\% \\ 9\% \\ 11\% \\ 9\% \\ 11\% \\ 19\% \\ 211 \\ 10\% $	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ hip, 22\\ \hline 201_2 \\ 201_2 \\ 40\\ 427_4 \\ 353_4 \\ 113_4 \\ 134_4 \\ 77_6 \\ 253_4 \\ 991_4 \\ 91_4 \\ 91_4 \\ 91_4 \\ 221_4 \\ 107_4$	$\begin{array}{c} D_2 \\ \text{Height,} \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{7}{8} \\ 20 \frac{5}{8} \\ 44 \\ 35 \frac{1}{2} \\ 35 \frac{1}{2} \\ 11 \frac{1}{4} \\ 8^{\frac{1}{4}} \\ 26 \\ 8^{\frac{1}{4}} \\ 9^{\frac{1}{4}} \\ 9^{\frac{1}{4}} \\ 10 \\ 23 \frac{1}{4} \\ 4^{\frac{1}{2}} \\ 11 \frac{5}{8} \\ 11 \frac{5}{8} \\ 11 \frac{5}{8} \\ 67 \\ 67 \\ 71 \\ 53 \\ 8 \frac{1}{2} \\ 53 \\ 8 \frac{1}{2} \\ 13 \frac{1}{2} \\ 95 \\ 8 \\ 18 \frac{5}{8} \\ 8 \frac{5}$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 10.1112.3.4.5.6.7.8.9.\\ 10.1112.3.14.15.16.7.18.19.\\ 222.23.4.226.27.\\ 225.229.30.\\ 312.333.3.3.\\ 325.229.30.\\ 325.333.3.3.\\ 325.229.30.\\ 325.333.3.\\ 325.335.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.3.\\ 325.355.355.355.355.355.355.355.355.355.$	Item No. and measurement Waist height inches. Hip height do Weight pounds Stature inches Cervicale height do Tibiale height do Tibiale height do Tibiale height do Trotch height do Bitrochanteric diameter do Shoulder slope derecs Anterior chest width inches Anterior chest width do Posterior chest width do Posterior chest width do Chest girth at amscye do Scye depth do Anterior chest arc do Maximum chest girth do Anterior chest arc do Maximum chest girth do Anterior chest arc do Hip girth do Neck-base girth do Shoulder length do Trunk line do Trunk line do Waist to hips do Trunk line do Thigh girth do Maximum calf girth do Anterior chest arc do State of the do State of the do Shoulder length do Total posterior arm length do Thigh girth do Maximum calf girth do Maximum calf girth do Nature do Thigh girth do Maximum calf girth do Nature broth do State of the do Maximum calf girth do State of the do Sta	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 425\%; \\ 425\%; \\ 425\%; \\ 2014, \\ 37, \\ 2014, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 37, \\ 35, \\ 11\%, \\ 11\%, \\ 1014, \\ 1$	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ 20142 \\ 20142 \\ 40 \\ 423 \\ 40 \\ 423 \\ 40 \\ 423 \\ 40 \\ 423 \\ 40 \\ 1114 \\ 1134 \\ 123 \\ 2014 \\ 235 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 434 \\ 107 \\ 516 $	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{1}{3} \\ 26 \frac{1}{3} \\ 23 \frac{1}{3} \\ 47 \frac{1}{3} \\ 23 \frac{1}{3} \\ 53 \frac{1}{3} \\ 53 \frac{1}{3} \\ 53 \frac{1}{3} \\ 53 \frac{1}{3} \\ 25 \frac{1}{3}$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 10.1112.13.14.15.16.7.18.19.\\ 222.24.2.22.2.2.2.3.3.3.3.3.3.3.3.3.3.3.$	Item No. and measurement Waist heightinchcs Hip heightdo. Weightpounds Statureinches Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Shoulder slopedegrees Anterior chest widthinches Chest girth at amscyedo. Scye depthdo. Posterior hip arcdo. Anterior chest widthdo. Prosterior hip arcdo. Maximum chest girthdo. Anterior chest widthdo. Posterior hip arcdo. Maximum chest girthdo. Anterior chest widthdo. Prosterior arm lengthdo. Armscye girthdo. Chyper-arm girthdo. Trunk linedo. Thiph girthdo. Thiph girthdo. Thiph girthdo. Thiph girthdo. Thiph girthdo. Armschart of the do. Thiph girthdo. Armschart of the do. Thiph girthdo. Charter of the do. Thiph girthdo. Armschart of the do. Thiph girthdo. Armschart of the do. Thiph girthdo. Thiph girthdo. Thiph girthdo. Armschart of the do. Thiph girthdo. Thiph girthdo. Armschart of the do. Thiph girthdo. Thiph girthdo. Thiph girthdo. Charter or the lengthdo. Anterior croch lengthdo. Extreme henddo. Extreme henddo. Charter or the lengthdo.	$\begin{array}{c} \mathbf{B}_2 \\ \hline \\ \mathbf{Height}, \\ 4249; \\ hip, 21 \\ \hline \\ 205\% \\ 307 \\ 42\% \\ 357 \\ 42\% \\ 357 \\ 11\% \\ 774 \\ 24\% \\ 774 \\ 85\% \\ 794 \\ 217 \\ 794 \\ 19\% \\ 91\% \\ 10\% \\ 11\% \\ 10\% \\ 11\% \\ 10\% \\ 11\% \\ 10\% \\ 11\% \\ 10\% \\ 11\% \\ 11\% \\ 11\% \\ 11\% \\ 10\% \\ 11\% $	$\begin{array}{c} C_2\\ \hline Height, \\ 43; \\ 2012\\ 2012\\ 40\\ 427\\ 40\\ 427\\ 3334\\ 1134\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 1814\\ 103\\ 8\\ 9\\ 2215\\ 434\\ 103\\ 4\\ 334\\ 103\\ 4\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 8\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 23 \frac{1}{2} \\ 25 \frac{1}{3} \\ 25 \frac{1}{3} \\ 20 \frac{1}{3} \\ 44 \\ 43 \frac{1}{3} \\ 35 \frac{1}{3} \\ 20 \frac{1}{3} \\ 84 \\ 26 \\ 84 \\ 99 \frac{1}{3} \\ 84 \\ 26 \\ 84 \\ 99 \frac{1}{3} \\ 11 \frac{1}{3} \\ 84 \\ 26 \\ 84 \\ 21 \frac{1}{3} \\ 23 \frac{1}{3} \\ 27 \\ 81 \\ 27 \\ 81 \\ 27 \\ 81 \\ 27 \\ 81 \\ 27 \\ 81 \\ 27 \\ 81 \\ 15 \frac{1}{3} \\ 85 \\ 81 \\ 39 \frac{1}{3} \\ 99 \frac{1}{3} \\ 39 \frac{1}$

			B ₃	C_3	D_3
	Item No. and measuremen	t	Height,	Height,	Height,
			45;	45;	4512:
			hip, 22	hip, 23	hip, 24½
1.	Waist height	nches	28	273/8	271
2.	Hip height	_do	21^{7}_{8}	217/8	217
3.	Weightp	ounds	41	441/2	48
4.	Stature	nches	447/8	451/8	453
5.	Cervicale height	-do	373/4	373/8	371
<u>6</u> .	Tinialc neight	_do	12	12	12
1.	Crotch height	0	195/8	195/8	191
8.	Bitrochanteric diameter	_00	118	81/8	81/
9.	Anterior chost midth	egrees	251/2	26	26
10.	Anterior cliest width	nenes	873	81/4	81/
11.	Anterior waist length	do	91/4	9%	101
12.	Posterior maint longth	_00	9%4	1012	101/
10. 14	Chost girth at armgana	-00	101/8	104	10%
14.	Chest gifth at armseye		22/2	231/4	237
10.	Bostorior hip are		105 /	111	10
17	Maximum abost girth	do	10%	11-/4	12
18	Anterior chest are	do	115/	1914	191
10.	Waist girth		20	1278	127
20	Hin girth	do	20	20%	21%
20.	Neck-base girth	do	2174	20%8	249
21. 99	Shoulder length	do	97.4	11%8	11%
22.	Armsove girth	do	1012	1054	11
20. 94	Upper-arm girth	do	61/	65/	11
25	Elhow girth	do	71/	71/2	73
26	Upper posterior arm length	do	87/	876	07
27	Total posterior arm length	do	1.534	157	16
28	Trunk line	do	53/	53/	53
29	Waist to hips	do	51%	55%	53
30	Thigh girth	do	121/2	13	137
31.	Maximum calf girth	_do	85%	9	93
32.	Knee girth	_do	914	95/8	97
33.	Total crotch length	do	1814	1834	191
34.	Anterior crotch length	do	91/3	91/2	93
35.	Extreme bend	_do	1838	1834	191
36.	Vertical trunk girth	_do	391/4	401/4	41
37.	Percentage 1	ercent	14	60	23
			B4	C4	\mathbf{D}_4
	Item No. and measuremen	at	Height, 47: hip, 22½	Height, 47½; hip, 24	Height, 48; hip, 25

		47: hip, 22½	47 ¹ / ₂ ; hip, 24	48; hip, 25
1.	Waist heightinches	283/	29	291/
2.	Hip height	231/8	233/8	233%
3.	Weightpounds	45	49	53
4.	Statureinches	471/8	471/2	473/1
5.	Cervicale heightdo	39	393/8	395/8
6.	Tihiale heightdo	125/8	1234	127/8
7.	Crotch height	207/8	21	207%
8.	Bitrochanteric diameter do	81/8	81/2	87/8
9.	Shoulder slope degrees	$25\frac{1}{2}$	251/2	251_{2}
0.	Anterior chest widthinches	83/8	85/8	87/8
1.	Anterior waist lengthdo	95/8	934	97/8
12.	Posterior chest widthdo	10	1014	103/8
3.	Posterior waist length	105/8	105/8	1034
14.	Chest girth at armseyedo	231/8	24	245%
5.	Seve depth	51/8	$5\frac{1}{4}$	51/4
16.	Posterior hip arcdo	11	115/8	123/8
17.	Maximum chest girth do			
8.	Anterior chest arcdo	12	$12\frac{1}{2}$	13
19.	Waist girthdo	$20^{3}/_{8}$	217%	2178
20.	Hip girthdo	$22^{5/8}$	237/8	251/8
21.	Neck-hase girthdo	113/8	115/8	117%
22.	Shoulder length	31/8	31/8	31/8
23.	Armseye girthdo	105/8	11	113/8
24.	Upper-arm girthdo	$6^{3}/_{8}$	63/4	$7\frac{1}{4}$
25.	Elbow girth. do	$7\frac{1}{2}$	734	8
26.	Upper posterior arm lengthdo	93/8	91/2	$91/_{2}$
27.	Total posterior arm lengthdo	161/2	1634	$16^{7/3}$
28.	Trunk linedo	55/8	55/8	55/8
29.	Waist to hipsdo	53/1	578	57/8
30.	Thigh girth do	125/8	131/2	143/8
31.	Maximum calf girthdo	81/2	91_{4}	934
32.	Knee girthdo	912	97/8	1014
33.	Total crotch lengthdo	187/8	191/2	201/8
34.	Anterior crotch lengthdo	958	97/8	101/8
35.	Extreme hend do	191/1	195/8	20
36.	Vertical trunk girthdo	4034	415%	421/2
37.	Percentage 1 Dercent	12	57	27
-				

 36. Vertical truink girth
 do.
 31½

 37. Percentage 1
 percent.
 17

 See footnotes at end of table.

TABLE 8.—Proposed system of boys' body measurements based on intervals of height and hip measure (symbols, i. e., B₁, C₁, D₁, show corresponding intervals on fig. 3) and designated by approximate height and hip dimensions in inches—Continued

		\mathbf{B}_{5}	C ₅	\mathbb{D}_{δ}
	Item No. and measurement	Height, 49½; hip, 24	Height, 50; hip, 25	Height, 50; hip, 26½
1.	Waist height inches	301/2	303/4	30%
2.	Hip heightdo	245/8	2434	247/8
3.	Weightpounds	501/2	55	60
4.	Statureinches	4958	497/8	50
5.	Cervicale height do	411/8	$411/_{2}$	413/4
6.	Tibiale height do	133/8	$13^{1/2}$	135/8
7.	Crotch heightdo	$22\frac{1}{4}$	$22\frac{1}{4}$	$22\frac{1}{4}$
8.	Bitrochanteric diameterdo	$8\frac{1}{2}$	87/8	914
9.	Shoulder slopedcgrees	$25\frac{1}{2}$	$251/_{2}$	$25\frac{1}{2}$
10.	Anterior chest width inches	834	9	$9\frac{1}{4}$
11.	Anterior waist lengthdo	10	10^{1}_{8}	$10\frac{1}{4}$
12.	Posterior chest widthdo	$10^{3}/_{8}$	$10\frac{5}{8}$	107/8
13.	Posterior waist lengthdo	11	111/8	111/4
14.	Chest girth at armseyedo	2418	$24\frac{7}{8}$	25^{3}_{4}
15.	Seve depthdo	53/8	53/8	$5\frac{1}{2}$
16.	Posterior hip arcdo	111/2	121/8	13
17.	Maximum cnest girthdo	241/4	251/8	26
18.	Anterior cnest arc	12%	13	131/2
19.	Waist girth	21	21%	221/2
20.	HIP girth	25%	25	26%
21.	Neck-Dase girthdo	11%	12	121/4
22.	Armoore girth	0~4 1116	0% 1112	3%
23.	Upper orm girth do	65/	1172	11/8
23.	Flbow giveth	73/	6	63/
20.	Upper posterior arm length do	074	10	1016
20.	Total posterior arm length do	171/2	1756	1776
28	Trunk line do	53%	57/	576
20.	Waist to hips do	6 4	61%	614
30	Thigh girth do	131/	141%	151%
31	Maximum calf girth do	914	93/1	101%
32	Knee girth do	10	103%	103/
33.	Total crotch length do	1934	203 %	21 4
34.	Anterior crotch lengthdo	10	1014	105%
35.	Extreme benddo	203/8	2034	2118
36.	Vertical trunk girthdo	423 5	4314	441/4
37.	Percentage 'percent	17	54	23
		Be	Ce	Ds

	Item No. and measurement	Height, 52: hip, 24½	Height, 52; hip, 26	Height, 52½; hip, 27½
1.	Waist heightinches	321/4	$321/_{2}$	323/
2.	Hip height	$26\frac{1}{8}$	261_{A}	263/8
3.	Weightpounds	551/2	61	671/2
4.	Statureinches	517/8	$52\frac{1}{8}$	523/8
5.	Cervicale heightdo	4314	435/8	437/8
6.	Tibiale height	> 141/8	141/4	143/8
7.	Crotch height	2334	2334	233/4
- 8.	Bitrochanteric diameterdo	87/8	91_{4}	934
9.	Shoulder slopedegrees	25	25	25
10.	Anterior chest widthinches	91/8	9 ³ /8	93/4
11.	Anterior waist length	101/4	$10\frac{1}{2}$	105/8
12.	Posterior chest widthdo	103/4	11	111/4
13.	Postcrior waist lengthdo	113/8	$11\frac{1}{2}$	115/8
14.	Chest girth at armscyedo	247/8	$25\frac{7}{8}$	267/8
15.	Scye depthdo	$5\frac{1}{2}$	55/8	534
16.	Posterior hip arcdo	117/8	$12^{5/8}$	135/8
17.	Maximum chest girthdo	25	26	27
18.	Anterior chest arcdo	13	$13\frac{1}{2}$	141/8
19.	Waist girthdo	$21\frac{1}{2}$	$22\frac{1}{4}$	231/4
20.	Hip girthdo	$24\frac{1}{2}$	26	275/8
21.	Neck-base girthdo	12	$12\frac{1}{4}$	$12\frac{1}{2}$
22.	Shoulder lengthdo	33/8	$3\frac{1}{2}$	$3\frac{1}{2}$
23.	Armseye girthdo	111/2	12	121/2
24.	Upper-arm girthdo	6^{3}_{4}	$7\frac{1}{4}$	77/8
25.	Elbow girthdo	8	8 ³ /8	834
26.	Upper posterior arm lengthdo	103/8	$10^{1/2}$	$10\frac{5}{8}$
27.	Total posterior arm lengthdo	183/8	185/8	187/8
28.	Trunk linedo	6	61/8	6
29.	Waist to hipsdo	61/4	6^{1}_{4}	63/8
30.	Thigh girthdo	135/8	1434	16
31.	Maximum call girthdo	91/2	101/8	105/8
32.	Knee girth	103/8	10^{3}_{4}	1114
33.	Total crotch lengthdo	203/8	211/8	21%
34.	Anterior crotch length	10%	10%	11
35.	Extreme bend	213/8	2134	221/4
36.	Vertical trunk girthdo	4334	44 1/8	46
37.	Percentage percent	13	60	23
	See footnotes at end of table.			

		B ₇	C7	D7
	Item No. and measurement	Height, 54; hip, 25½	Height, 54 ¹ / ₂ ; hip, 27	Height, 55; hip, 29
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 112.\\ 13.\\ 14.\\ 15.\\ 16.\\ 19.\\ 221.\\ 223.\\ 24.\\ 226.\\ 27.\\ 28.\\ 29.\\ 31.\\ 32.\\ 33.\\ 35.\\ 36.\\ \end{array}$	Waist height inches Hip height do Weight pounds Stature inches Cervicale height do Tibiale height do Croich height do Bitrochanteric diameter do Shoulder slope degrees Anterior waist length do Posterior chest width do Posterior chest width do Cortor waist length do Posterior hip arc do Scye depth do Posterior hip arc do Maximum chest girth do Anterior chest are do Maximum chest girth do Anterior rothip arc do Maximum chest girth do Anterior rothest are do Maximum chest girth do Maximum girth do Maring girth do Maring girth do Upper posterior arm length do Trunk line do Maxist to hips do	$\begin{array}{c} 34\\ 275\%\\ 62\\ 5114\\ 4512\\ 2514\\ 4512\\ 2015\\ 20$	$\begin{array}{c} 34\frac{1}{4}\\ 34\frac{1}{4}\\ 2775\\ 68\\ 5412\\ 2775\\ 68\\ 5412\\ 2516\\ 995\\ 255\\ 995\\ 255\\ 295\\ 255\\ 205\\ 205\\ 205\\ 205\\ 205\\ 205\\ 20$	$\begin{array}{c} 3414\\ 3474\\ 2775\\ 2775\\ 5484\\ 4604\\ 1556\\ 255\\ 1006\\ 255\\ 1006\\ 111\\ 113\\ 127\\ 277\\ 127\\ 287\\ 143\\ 287\\ 287\\ 127\\ 396\\ 133\\ 84\\ 99\\ 114\\ 478\\ 194\\ 217\\ 102\\ 116\\ 217\\ 116\\ 217\\ 116\\ 217\\ 116\\ 227\\ 227\\ 116\\ 116\\ 227\\ 227\\ 116\\ 116\\ 227\\ 227\\ 116\\ 116\\ 227\\ 227\\ 116\\ 227\\ 227\\ 116\\ 227\\ 227\\ 227\\ 227\\ 116\\ 227\\ 227\\ 227\\ 227\\ 227\\ 227\\ 227\\ 22$
37.	rercentage 1percent_	14 	57 C8	23 8
	Item No. and measurement			

	item ivo, and measure	incht	Height, 56 ¹ / ₂ :	Height, 57:	Height,
			hip, 27	hip, 28½	hip, 30
1.	Waist height	inches	357/8	36	361/2
2.	Hip height	do	2914	293/8	293%
3.	Weight	pounds	69	751/2	84
4.	Stature	inches	565/8	567/8	57
5.	Cervicale height	do	4734	48	481/4
6.	Tibiale height	do	1534	157/8	15%
7.	Crotch height	do	265/8	$26^{1/2}$	263/8
- 8.	Bitrochanteric diameter	do	95/8	101/8	105%
9.	Shoulder slope	_degrees	25	25	25
10.	Anterior chest width	inches	97/8	101/8	$10^{1/2}$
11.	Anterior waist length	do	11	111/8	1114
12.	Posterior chest width	do	113/8	113/4	117/8
13.	Posterior waist length	do	121/4	$12\frac{3}{8}$	$12^{1/2}_{-2}$
14.	Chest girth at armseye	do	$26\frac{7}{8}$	$27\frac{3}{4}$	287/8
15.	Scye depth	do	6	$6\frac{1}{8}$	61/4
16.	Posterior hip arc	do	13	1334	1434
17.	Maximum chest girth	do	267/8	$27\frac{7}{8}$	29
18.	Anterior chest arc	do	$14\frac{1}{8}$	145/8	153/8
19.	Waist girth	do	225/8	$231/_{2}$	243/4
20.	Hip girth	do	$26\frac{3}{4}$	$28^{3}/_{8}$	301/8
21.	Neck-base girth	do	$12^{5/8}$	13	1314
22.	Shoulder length	do	$3^{5/8}$	334	37/8
23.	Armseye girth	do	125_{8}	$13\frac{1}{8}$	135/8
24.	Upper-arm girth	do	73/8	71/8	81/2
25.	Elbow girth	do	83/4	9	93/8
26.	Upper posterior arm leng	thdo	111/2	115/8	1134
27.	Total posterior arm lengt.	hdo	$20^{3}/8$	205/8	$20\frac{3}{4}$
28.	Trunk line	do	$6\frac{1}{2}$	6^{1}_{2}	6^{1}_{22}
29.	Waist to hips	do	63/4	61/8	67/8
30.	Thigh girth	do	15	$16\frac{1}{8}$	175/8
31.	Maximum call girth	do	103/8	11	115/8
32.	Knee girth	do	1114	1134	121/4
33.	Total crotch length		221/4	$22\frac{7}{8}$	233/4
34.	Anterior crotch length	0D	111/4	115/8	12
35.	Extreme bend	0D	23%	23%	243/8
36.	Vertical trunk girth	0D	471/4	483/8	495/8
31.	Percentage 1	percent	15	52	24

 TABLE 8.—Proposed system of boys' body measurements based on intervals of height and hip measure (symbols, i. e., B₁, C₁, D₁, show corresponding intervals on fig. 3) and designated by approximate height and hip dimensions in inches—Continued

Net a start of the	B9	C9	D9		B11	C ₁₁	D ₁₁
Item No. and measurement	Height, 59; hip, 28	Height, 59; hip, 30	Height, 59½; hip, 32	Item No. and measurement	Height, 64; hip, 31½	Height, 64; bip, 33	Height, 64; hip, 35
1. Waist height inches. 2. Hip height do. 3. Weight pounds. 4. Stature inches. 5. Cervicale height do. 6. Tibiale height do. 7. Croteh height do. 8. Bitrochanteric diameter do. 9. Shoulder slope degrees. 10. Anterior waist length do. 12. Posterior enest width do. 13. Posterior waist length do. 14. Chest girth at armseye do. 15. Seye depth do. 16. Posterior hig are do. 17. Maximum chest girth do. 18. Anterior chest arc. do. 19. Waist girth do. 20. Hip girth do. 21. Neek-hase girth do. 22. Shoulder length do. 23. Armseye girth do. 24. Upper-arm girth do. 25. Elbow girth do. 26. Upper posterior arm length do. 27. Total posterior arm length do. 28. Turk line do. 30. Thig girth	$\begin{array}{c} 375 \\ 3084 \\ 78 \\ 59 \\ 50 \\ 105 \\ 2175 \\ 2075 \\ 2175 \\ 2175 \\ 2175 \\ 2175 \\ 2175 \\ 2175 \\ 2184 \\ 28 \\ 614 \\ 128 \\ 614 \\ 128 \\ 2184 \\ 2342 \\ 284 \\ 133 \\ 284 \\ 133 \\ 284 \\ 133 \\ 284 \\ 133 \\ 284 \\ 133 \\ 284 \\ 634 \\ 634 \\ 634 \\ 111 \\ 117 \\ 2334 \\ 117 \\ 234 \\ 117 \\ 234 \\ 117 \\ 234 \\ 994 \\ 494 \\ 494 \\ 1994 \end{array}$	$\begin{array}{c} 3734\\ 307\\ 86\\ 5914\\ 165\\ 886\\ 1275\\ 86\\ 1275\\ 105\\ 8\\ 121\\ 121\\ 121\\ 121\\ 121\\ 121\\ 121\\ $	$\begin{array}{c} 3774\\ 3074\\ 3074\\ 95142\\ 5934\\ 5934\\ 25934\\ 27593\\ 1634\\ 27593\\ 1275\\ 113\\ 125\\ 1236\\ 1236\\ 1635\\ 2534\\ 1336\\ 1635\\ 2534\\ 1334\\ 1334\\ 1436\\ 997\\ 1214\\ 2154\\ 1256\\ 1224\\ 1224\\ 2154\\ 1224\\ 2512\\ 2254\\ 2254\\ 2254\\ 2512$	1. Waist heightinches2. Hip heightdo3. Weightpounds4. Statureinches5. Cervicale heightdo6. Tibiale heightdo7. Crotch heightdo8. Bitrochanterie diameterdo9. Shoulder slopedegrees10. Anterior waist lengthdo12. Posterior chest widthinches13. Posterior waist lengthdo14. Cbest girth at armseyedo15. Seye depthdo16. Posterior rhip aredo17. Maximum chest girthdo18. Anterior ehest withdo19. Waist girth.do10. Anterior waist lengthdo11. Seye depthdo12. Posterior rhip aredo13. Posterior arm lengthdo14. Cbest girth at armseyedo15. Seye depthdo16. Posterior hip aredo17. Maximum chest girthdo20. Hip girthdo21. Neck-base girthdo22. Shoulder lengthdo23. Armseye girthdo24. Upper posterior arm lengthdo25. Elbow girthdo26. Upper posterior arm lengthdo27. Total posterior arm lengthdo30. Thigh girthdo31. Maximum calf girthdo32. Knee girtbdo33. Total croteh lengthdo34. Anterior eroteh lengthdo35. Extreme benddo36. Vertical trunk girthdo <tr< td=""><td>$\begin{array}{c} 403_4\\ 331_2\\ 331_2\\ 633_4\\ 541_2\\ 1001_2\\ 111_4\\ 24\\ 111_2\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 101_4\\ 251_6\\ 303_4\\ 161_4\\ 251_6\\ 313_6\\ 141_4\\ 251_6\\ 313_6\\ 141_4\\ 143_4\\ 101_6\\ 131_6\\ 233_6\\ 71_2\\ 71_2\\ 7$</td><td>$\begin{array}{c} 4034\\ 4034\\ 338\\ 8\\ 111\\ 64\\ 543\\ 8\\ 10\\ 117\\ 12\\ 131\\ 141\\ 141\\ 141\\ 141\\ 141\\ 141\\ 141$</td><td>$\begin{array}{c} 405\%\\ 303/8\\ 333/8\\ 123\\ 6444\\ 547\\ 1228\\ 1228\\ 1228\\ 1238\\ 1386\\ 337\\ 1238\\ 1386\\ 337\\ 1238\\ 1386\\ 1386\\ 1386\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137$</td></tr<>	$\begin{array}{c} 403_4\\ 331_2\\ 331_2\\ 633_4\\ 541_2\\ 1001_2\\ 111_4\\ 24\\ 111_2\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 123_4\\ 101_4\\ 251_6\\ 303_4\\ 161_4\\ 251_6\\ 313_6\\ 141_4\\ 251_6\\ 313_6\\ 141_4\\ 143_4\\ 101_6\\ 131_6\\ 233_6\\ 71_2\\ 71_2\\ 7$	$\begin{array}{c} 4034\\ 4034\\ 338\\ 8\\ 111\\ 64\\ 543\\ 8\\ 10\\ 117\\ 12\\ 131\\ 141\\ 141\\ 141\\ 141\\ 141\\ 141\\ 141$	$\begin{array}{c} 405\%\\ 303/8\\ 333/8\\ 123\\ 6444\\ 547\\ 1228\\ 1228\\ 1228\\ 1238\\ 1386\\ 337\\ 1238\\ 1386\\ 337\\ 1238\\ 1386\\ 1386\\ 1386\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137\\ 137$
37. Percentagepercent	B ₁₀	- 47 C ₁₀	D ₁₀	si. reicentagepercent	B ₁₂	C ₁₂	D ₁₂
Item No. and measurement	Height, 61½; hip, 30	Height, 61 ¹ / ₂ ; hip, 31 ¹ / ₂	Height, 62; hip, 33	Item No. and measurement	Height, 66; hip, 33	Height, 66½; hip, 34½	Height, 66½: bip, 36½
1. Waist height incbes. 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tibialc height do 7. Croteb height do 8. Bitrochanterie diameter do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior ehest width do 13. Posterior waist length do 14. Chest girth at armseye do 15. Seye depth. do 16. Posterior hip are do 17. Maximum ehest girth. do 18. Anterior chests are do 20. Hip girth. do 21. Neck-base girth do 22. Shoulder length do 23. Armscyce girth do 24. Upper-arm girtb. do 25. Ellow girth do 26. Upper posterior arm length do 27. Total posterior arm length do 28. Trunk line do 29. Waist to hips <td< td=""><td>$\begin{array}{c} 399\%\\ 3244\\ 88\\ 611\\ 297\\ 10^{5}\\ 10^{5}\\ 1134\\ 124\\ 10^{5}\\ 1134\\ 124\\ 1354\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1352\\ 432\\ 2984\\ 1352\\ 432\\ 2984\\ 1352\\ 128\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 29$</td><td>$\begin{array}{c} 39^{3} \\ 32^{3} \\ 32^{3} \\ 32^{3} \\ 32^{3} \\ 52^{3} \\ 52^{3} \\ 52^{3} \\ 29 \\ 111^{4} \\ 25^{3} \\ 29 \\ 111^{4} \\ 12^{5} \\ 29 \\ 131^{2} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 31^{1} \\ 25^{3} \\ 10^{3} \\ 12^{3} \\ 4^{1} \\ 87^{5} \\ 12^{3} \\ 12^{3} \\ 13 \\ 25^{3} \\ 13 \\ 25^{3} \\ 13 \\ 25^{3} \\ 33^{1} \\ 26^{1} \\ 53^{1} \\ 33^{1} \\ 26^{1} \\ 53^{1} \\ 33^{1} \\$</td><td>$\begin{array}{c} 393 \\ 32 \\ 108 \\ 6134 \\ 173 \\ 225 \\ 1173 \\ 225 \\ 112 \\ 25 \\ 112 \\ 25 \\ 112 \\ 25 \\ 112 \\ 25 \\ 127 \\ 313 \\ 317 \\ 313 \\ 317 \\ 265 \\ 331 \\ 141 \\ 415 \\ 263 \\ 41 \\ 151 \\ 223 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 223 \\ 123 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 133 \\ 263 \\ 261 \\ 25 \\ 20 \end{array}$</td><td>1. Waist heightinches.2. Hip beightdo3. Weightpounds.4. Statureinches.5. Cervicale heightdo6. Tibiale beightdo7. Croteh heightdo8. Bitrochanterle diameterdo9. Shoulder slopedegrees.10. Anterior ehest widthinches.11. Anterior waist lengthdo12. Posterior chest widthdo13. Posterior waist lengthdo14. Cbest girth at armscycdo15. Scyc depthdo16. Posterior hip arc.do17. Maximum ehest girthdo18. Anterior ehest arc.do19. Waist girthdo20. Hip girthdo21. Neck-hase girthdo22. Shoulder lengthdo23. Armseye girtbdo24. Upper-arm girthdo25. Elhow girthdo26. Upper posterior arm lengthdo27. Total posterior arm lengthdo28. Trunk linedo29. Waist to hipsdo31. Maximum ealf girthdo33. Total erotch lengthdo34. Anterior crolch lengthdo35. Karee girthdo36. Vertical trunk girthdo37. Total erotch lengthdo36. Vertical trunk girthdo37. Percentage 1percent36. Vertical trunk girthdo</td><td>$\begin{array}{c} 421_{8}\\ 421_{8}\\ 345_{8}\\ 345_{8}\\ 113\\ 663_{4}\\ 565_{8}\\ 311_{4}\\ 12\\ 225\\ 121_{5}\\$</td><td>$\begin{array}{c} 42\\ 343 \\ 8\\ 343 \\ 8\\ 1251 \\ 2563 \\ 8125 \\ 8125 \\ 8125 \\ 825 \\ 125 \\ 825 \\ 125 \\ 8125 \\ 8125 \\ 125 \\ 125 \\ 8125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 131 \\ 812 \\ 121 \\ 131 \\ 812 \\ 151 \\ 151 \\ 515 \\ 151 \\ 151 \\ 151 \\ 515 \\ 151 \\$</td><td>$\begin{array}{c} 417_{5}\\ 417_{5}\\ 3144\\ 138\\ 661_{5}\\ 665_{5}\\ 65_{5}\\ 85_{5}\\ 25_{5}\\ 188_{5}\\ 25_{5}\\ 133_{5}\\ 148_{5}\\ 355_{5}\\ 25_{5}\\ 133_{5}\\ 355_{5}\\ 148_{5}\\ 355_{5}\\ 155_{5}\\ 288_{5}\\ 288_{5}\\ 155_{5}\\ 135_{5}\\ 445_{5}\\ 163_{4}\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 288_{5}\\ 600_{5}\\ 80\\ 20\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$</td></td<>	$\begin{array}{c} 399\%\\ 3244\\ 88\\ 611\\ 297\\ 10^{5}\\ 10^{5}\\ 1134\\ 124\\ 10^{5}\\ 1134\\ 124\\ 1354\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1514\\ 2994\\ 1352\\ 432\\ 2984\\ 1352\\ 432\\ 2984\\ 1352\\ 128\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 1352\\ 2984\\ 29$	$\begin{array}{c} 39^{3} \\ 32^{3} \\ 32^{3} \\ 32^{3} \\ 32^{3} \\ 52^{3} \\ 52^{3} \\ 52^{3} \\ 29 \\ 111^{4} \\ 25^{3} \\ 29 \\ 111^{4} \\ 12^{5} \\ 29 \\ 131^{2} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 30^{1} \\ 25^{3} \\ 31^{1} \\ 25^{3} \\ 10^{3} \\ 12^{3} \\ 4^{1} \\ 87^{5} \\ 12^{3} \\ 12^{3} \\ 13 \\ 25^{3} \\ 13 \\ 25^{3} \\ 13 \\ 25^{3} \\ 33^{1} \\ 26^{1} \\ 53^{1} \\ 33^{1} \\ 26^{1} \\ 53^{1} \\ 33^{1} \\ $	$\begin{array}{c} 393 \\ 32 \\ 108 \\ 6134 \\ 173 \\ 225 \\ 1173 \\ 225 \\ 112 \\ 25 \\ 112 \\ 25 \\ 112 \\ 25 \\ 112 \\ 25 \\ 127 \\ 313 \\ 317 \\ 313 \\ 317 \\ 265 \\ 331 \\ 141 \\ 415 \\ 263 \\ 41 \\ 151 \\ 223 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 223 \\ 123 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 123 \\ 223 \\ 133 \\ 263 \\ 261 \\ 25 \\ 20 \end{array}$	1. Waist heightinches.2. Hip beightdo3. Weightpounds.4. Statureinches.5. Cervicale heightdo6. Tibiale beightdo7. Croteh heightdo8. Bitrochanterle diameterdo9. Shoulder slopedegrees.10. Anterior ehest widthinches.11. Anterior waist lengthdo12. Posterior chest widthdo13. Posterior waist lengthdo14. Cbest girth at armscycdo15. Scyc depthdo16. Posterior hip arc.do17. Maximum ehest girthdo18. Anterior ehest arc.do19. Waist girthdo20. Hip girthdo21. Neck-hase girthdo22. Shoulder lengthdo23. Armseye girtbdo24. Upper-arm girthdo25. Elhow girthdo26. Upper posterior arm lengthdo27. Total posterior arm lengthdo28. Trunk linedo29. Waist to hipsdo31. Maximum ealf girthdo33. Total erotch lengthdo34. Anterior crolch lengthdo35. Karee girthdo36. Vertical trunk girthdo37. Total erotch lengthdo36. Vertical trunk girthdo37. Percentage 1percent36. Vertical trunk girthdo	$\begin{array}{c} 421_{8}\\ 421_{8}\\ 345_{8}\\ 345_{8}\\ 113\\ 663_{4}\\ 565_{8}\\ 311_{4}\\ 12\\ 225\\ 121_{5}\\ $	$\begin{array}{c} 42\\ 343 \\ 8\\ 343 \\ 8\\ 1251 \\ 2563 \\ 8125 \\ 8125 \\ 8125 \\ 825 \\ 125 \\ 825 \\ 125 \\ 8125 \\ 8125 \\ 125 \\ 125 \\ 8125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 125 \\ 131 \\ 812 \\ 121 \\ 131 \\ 812 \\ 151 \\ 151 \\ 515 \\ 151 \\ 151 \\ 151 \\ 515 \\ 151 \\$	$\begin{array}{c} 417_{5}\\ 417_{5}\\ 3144\\ 138\\ 661_{5}\\ 665_{5}\\ 65_{5}\\ 85_{5}\\ 25_{5}\\ 188_{5}\\ 25_{5}\\ 133_{5}\\ 148_{5}\\ 355_{5}\\ 25_{5}\\ 133_{5}\\ 355_{5}\\ 148_{5}\\ 355_{5}\\ 155_{5}\\ 288_{5}\\ 288_{5}\\ 155_{5}\\ 135_{5}\\ 445_{5}\\ 163_{4}\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 113_{5}\\ 88\\ 245_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 215_{5}\\ 88\\ 144_{5}\\ 88\\ 288_{5}\\ 600_{5}\\ 80\\ 20\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 100$

See footnotes at end of table.

TABLE S.—Proposed system of boys' body measurements based on intervals of height and hip measure (symbols, i. e., B_1 , C_1 , D_1 , show corresponding intervals on fig. 3) and designated by approximate height and hip dimensions in inches—Continued

		B ₁₃	C ₁₃	D_{13}
	Item No. and measurement	Height, 68½; hip, 34	Height, 68½; hip, 36	Height, 69; hip, 37½
1.	Waist height inches	431/2	433/6	433/
2.	Hip heightdo	353/	351/3	353%
3.	Weight pounds	1241/2	1361	151
4.	Statureinches_	681/2	685%	683/4
5.	Cervicale heightdo	585/8	5834	58%
6.	Tibiale heightdo	- 191/8	191/8	191/8
7.	Crotch heightdo	3214	317/8	3134
8.	Bitrochanteric diameter do	123/8	127/8	1314
9.	Shoulder slopedegrees_	- 25	25	25
10.	Anterior chest widthinches_	125/8	13	133/8
11.	Anterior waist lengthdo	. 131/2	135/8	137/8
12.	Posterior chest widthdo	- 137/8	141/4	143/4
13.	Posterior waist lengthdo	153/8	15^{3}_{4}	157/8
14.	Chest girth at armscyedo	- 333/4	351/4	36^{3}_{4}
15.	Seye depthdo	- 75/8	73/4	77/8
16.	Posterior hip arcdo	16^{1}_{2}	171/2	$18\frac{1}{2}$
17.	Maximum chest girthdo	333/4	351/4	363/4
18.	Anterior chest arcdo	- 173/4	$18\frac{1}{2}$	$193/_{8}$
19.	Waist girthdo	$-26\frac{5}{8}$	277/8	293/8
20.	Hip girthdo	34	353/4	375/8

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	\mathbf{B}_{13}	C_{13}	D_{13}
Item No. and measurement	Height, 68 ¹ / ₂ hip, 34	Height, 68½; hip, 36	Height, 69; hip, 37½
21. Neck-base girth do	153/	157/	163/
22. Shoulder length do	45/8	43/	43
23. Armseve girthdo	161/8	1634	173
24. Upper-arm girthdo	95/8	103/8	11
25. Elbow girthdo	107/8	113/8	115/
26. Upper posterior arm length do	141/4	141/4	143
27. Total posterior arm lengthdo	$25\frac{1}{8}$	$25\frac{1}{4}$	253
28. Trunk linedo	$8^{1}/_{8}$	$8\frac{1}{8}$	81
29. Waist to hipsdo	$8\frac{1}{8}$	81/4	81/4
30. Thigh girthdo	19	$20^{3}/_{8}$	213/
31. Maximum calf girth do	$13\frac{1}{8}$	$13\frac{3}{4}$	143
32. Knee girthdo	$13\frac{5}{8}$	141/8	145/
33. Total crotch lengthdo	$28\frac{1}{8}$	$28\frac{7}{8}$	295/
34. Anterior crotch lengthdo	143/8	14^{3}_{4}	15^{1}
35. Extreme benddo	287_{8}	$29\frac{1}{8}$	295
36. Vertical trunk girthdo	593/8	6034	621
37. Percentage 1percent	28	44	18

¹ Based on total number of children in the given height interval.

 TABLE 9.— Proposed system of girls' body measurements based on intervals of height and hip measure (symbols, i. e., B1, C1, D1, show corresponding intervals on fig. 4) and designated by approximate height and hip dimensions in inches

	*			
		B ₁	C_1	D_1
	Item No. and measurement	Height	Hoight	Hoight
		401%	Height,	Hoight,
		hip, 201/2	hip, 22	hip, 231/2
1	Waist beight			~ ~ ~ ~
$\frac{1}{2}$.	Hip height do	241/4 191/	243/8 193/	24% 191%
3.	Weightpounds	33	36	391/2
4.	Statureinches	403/8	405/8	4034
э. б	Tibiale height do	331/8	33%	33%
7.	Crotch height do	10/8	171/8	10/4
8.	Bitrochanteric diameterdo	$7\frac{1}{4}$	75/8	8
9. 10	Anterior chest width inches	251/2	251/2	26
11.	Anterior waist length do	81/2	85%	85%
12.	Posterior chest widthdo	87/8	918	9 ³ /8
$13{14}$	Posterior waist lengthdo	914 907	91_{4}	93/8
14.15.	Seve depth do	20 1/8 41/2	2198 41/3	22% 45.8
16.	Posterior hip arcdo	101/8	1078	113/8
17.	Maximum chest girthdo	107/		
18.	Weist girth do	101/8	1114_{4}_{1012}	115/8
20.	Hip girthdo	$20\frac{13}{2}$	217/8	2078
21.	Neck-hase girthdo	$10\frac{1}{2}$	105/8	107/8
22.	Armseve girth	25/8	23/4	27/8
$\frac{23}{24}$	Upper-arm girth do	9% 6	9%4 63%	10%8 63/
25.	Elbow girthdo	65/8	678	71/8
26.	Upper posterior arm lengthdo	77/8	8	8
$\frac{27}{98}$	Trupk line	13 1/8	141/8	141/8
$\frac{23}{29}$.	Waist to hipsdo	518	514	53/8
30.	Thigh girthdo	115/8	125/8	$13\frac{1}{2}$
$\frac{31}{22}$	Maximum calf girth do	818	81/2	87/8
эл. 33.	Total crotch length do	17 17	171/2	181/2
34.	Anterior crotch lengthdo	81/2	85/8	99
35.	Extreme hend do	17	173/8	173/4
30. 37.	Percentage 1 percent	25	56 56	17
		B.	Co	Da
	•	B ₂	C ₂ .	D ₂
	Item No. and measurement	B2 Height,	C ₂ . Height,	D ₂ Height,
	Item No. and measurement	B ₂ Height, 42 ¹ / ₂ ; hip, 21 ¹ / ₂	C ₂ . Height, 43; hip, 22 ¹ / ₂	D ₂ Height, 43; hip, 24
	Item No. and measurement	B ₂ Height, 42 ¹ ⁄ ₂ ; hip, 21 ¹ ⁄ ₂	C ₂ . Height, 43; hip, 221/ ₂	D2 Height, 43; hip, 24
1.	Item No. and measurement	B ₂ Height, 42 ¹ / ₂ ; hip, 21 ¹ / ₂ 25 ⁷ / ₈	C ₂ . Height, 43; hip, 22 ¹ / ₂	D ₂ Height, 43; hip, 24
1. 2. 3.	Item No. and measurement Waist heightinches Hip heightdo	$\begin{array}{c} \text{B}_{2} \\ \hline \\ \text{Height,} \\ 42^{1}2^{\circ}_{2;} \\ \text{hip, } 21^{1}2 \\ \hline \\ 257_{8} \\ 205_{8} \\ 36^{1} \\ \end{array}$	$\begin{array}{c} C_{2} \\ \hline \\ Height, \\ 43; \\ hip, 22\frac{1}{2} \\ \hline \\ 26\frac{1}{8} \\ 40 \end{array}$	D ₂ Height, 43; hip, 24 $26\frac{1}{4}$ $20\frac{7}{8}$ $43\frac{1}{4}$
1. 2. 3. 4.	Item No. and measurement Waist heightinches Hip heightdo Weightpounds Statureinches.	B ₂ Height, 42 ¹ / ₂ ; hip, 21 ¹ / ₂ 25 ⁷ / ₈ 36 ¹ / ₂ 42 ⁵ / ₈	C ₂ . Height, 43; hip, 22 ¹ / ₂ 26 ¹ / ₈ 20 ³ / ₄ 40 42 ⁷ / ₈	$\begin{array}{c} D_2\\ Height,\\ 43;\\ hip, 24\\ \hline \\ 207_8\\ 43^{1/2}\\ 43^{1/2}\\ 43\end{array}$
1. 2. 3. 4. 5.	Item No. and measurement Waist heightinches Hip heightdo Weight	B ₂ Height, 42½; hip, 21½ 25½ 36½ 36½ 425 35½	C ₂ . Height, 43; hip, 22½ 26¼ 2034 40 427% 35½	D ₂ Height, 43; hip, 24 261/4 207/8 43/2 43/2 43/2 43/2 355/8
1.2.3.4.5.6.7	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Statureinches. Cervicale heightdo Tihiale heightdo Tihiale heightdo.	B ₂ Height, 42 ¹ /2; hip, 21 ¹ /2 25 ⁷ /8 205 ⁸ 36 ¹ /2 42 ⁵ /8 35 ¹ /8 11 ¹ /4 18 ³ /6	C ₂ . Height, 43; hip, 22½ 26½ 2034 40 4278 35½ 1138 1138	D ₂ Height, 43; hip, 24 261/4 207/8 431/2 43 355/8 111/2 183/4
1. 2. 3. 4. 5. 6. 7. 8.	Item No. and measurement Waist height inches Hip height do Weight do Stature inches Cervicale height do Thibale height do Croteh height do Bitroehanterie diameter do	$\begin{array}{c} {\rm B_2} \\ {\rm Height,} \\ 42! \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	C ₂ . Height, 43; hip, 22½ 2034 40 4278 35½ 1138 835½ 88 88	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 24 \\ \hline \\ 201/8 \\ 431/2 \\ 43 \\ 355/8 \\ 111/2 \\ 183/8 \\ 83 \\ \end{array}$
1. 2. 3. 4. 5. 6. 7. 8. 9.	Item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Statureinches. Cervicale heightdo. Crotch heightdo. Shoulder slopedogrees.	$\begin{array}{r} {\rm B_2} \\ {\rm Height,} \\ 421/2; \\ {\rm hip, 211/2} \\ 257/8 \\ 305/8 \\ 361/2 \\ 425/8 \\ 351 \\ 425/8 \\ 351 \\ 111/4 \\ 183_8 \\ 25 \\ 8 \\ 25 \\ 8 \\ 25 \\ 8 \\ 25 \\ 8 \\ 25 \\ 8 \\ 8 \\ 25 \\ 8 \\ 8 \\ 25 \\ 8 \\ 8 \\ 8 \\ 25 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ $	$\begin{array}{c} C_2 \\ \hline Height, \\ 43; \\ hip, 22J_2 \\ \hline \\ 2034 \\ 40 \\ 4278 \\ 35J_2 \\ 1138 \\ 1838 \\ 88 \\ 25J_2 \end{array}$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 24 \\ \hline 2014 \\ 43 \\ 43 \\ 43 \\ 355 \\ 111 \\ 183 \\ 83 \\ 251 \\ 251 \\ 2 \\ 251 \\ 2 \\ 251 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $
$ \begin{array}{c} 1.\\2.\\3.\\4.\\5.\\6.\\7.\\8.\\9.\\10.\\\end{array} $	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Stature inches. Cervicale heightdo. Tihiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Anterior chest widthinches. Anterior expirt hondo.	$\begin{array}{c} B_{2} \\ Height, \\ 42^{1}/2; \\ hip, 21^{1}/2 \\ 25^{7}/8 \\ 36^{1}/2 \\ 42^{5}/8 \\ 35^{1}/5 \\ 42^{5}/8 \\ 35^{1}/5 \\ 11^{1}/4 \\ 18^{3}/8 \\ 7^{5}/8 \\ 25 \\ 7^{3}/4 \\ 8^{7}/7 \\ $	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 22!/2 \\ \hline \\ 2034 \\ 40 \\ 4276 \\ 35!/2 \\ 1138 \\ 818^3 \\ 8 \\ 8 \\ 25!/2 \\ 8 \\ 87. \end{array}$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 24 \\ \hline \\ 207_8 \\ 431_2 \\ 433 \\ 55_8 \\ 113_2 \\ 183_8 \\ 83_8 \\ 85_8 \\ 251_2 \\ 81_4 \\ 81_4 \\ \end{array}$
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Item No. and measurement Waist heightinches Hip heightdo Weightpounds. Statureinches. Cervicale heightdo Tihiale heightdo Tihiale heightdo Bitrochanteric diameterdo Shoulder slopedegrees. Anterior chest widthinches. Anterior chest widthinches. Anterior chest widthdo	$\begin{array}{c} \text{B}_2\\ \text{Height,}\\ 42/2;\\ \text{hip, }21/2\\ 257_8\\ 2058\\ 3612\\ 425\\ 3612\\ 425\\ 3612\\ 425\\ 835\\ 75\\ 835\\ 75\\ 8\\ 75\\ 8\\ 8\\ 7\\ 8\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 9\\ 8\\ 8\\ 9\\ 8\\ 8\\ 9\\ 8\\ 8\\ 8\\ 8\\ 8\\ 9\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 2034\\ 40\\ 427/8\\ 355/2\\ 113/8\\ 183/8\\ 8/8\\ 8/8\\ 8/8\\ 8/8\\ 8/8\\ 8/9\\ 8/9\\ 8$	$\begin{array}{c} D_2 \\ Height, \\ 43; \\ hip, 24 \\ \hline 26!_4 \\ 2078 \\ 43!_2 \\ 43 \\ 355 \\ 11!_2 \\ 1838 \\ 838 \\ 25!_2 \\ 8!_4 \\ 9 \\ 9!_5 \\ 9!_5 \\ \end{array}$
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 113.	Item No. and measurement Waist height	$\begin{array}{c} & B_{2} \\ \hline \\ Height, \\ 42/2; \\ hip, 21/2 \\ 205 \\ 36/2 \\ 425 \\ 35/2 \\ 425 \\ 35/2 \\ 1114 \\ 113 \\ 425 \\ 75 \\ 425 \\ 35/2 \\ 1114 \\ 133 \\ 8 \\ 75 \\ 8 \\ 35 \\ 114 \\ 133 \\ 8 \\ 8 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 22!/2\\ \hline 26!/2\\ 2034\\ 407\\ 4276\\ 35!/2\\ 1138\\ 835!/2\\ 1138\\ 88\\ 25!/2\\ 8\\ 87\\ 93\\ 6\\ 93\\ 6\\ 95\\ 8\end{array}$	$\begin{array}{c} \mathbf{D}_2 \\ \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{hip, 24} \\ \\ 20\% \\ 43\% \\ 111\% \\ 110\% \\ 111\% \\ 110\% \\ 110\% \\ 110\% \\ 110\% \\ 110\% $
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	Item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Statureinches. Cervicale heightdo. Tihiale heightdo. Croteh heightdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior waist lengthdo. Posterior chest widthinches Anterior waist lengthdo. Posterior waist lengthdo. Chest girth at armscyedo.	$\begin{array}{c} & B_2 \\ \hline \\ Height, \\ 422\%; \\ hip, 211\% \\ 205\% \\ 301\% \\ 425\% \\ 303\% \\ 75\% \\ 75\% \\ 75\% \\ 93\% \\ 93\% \\ 95\% \\ 9$	$\begin{array}{c} C_{2} \\ \hline Height, \\ 43; \\ hip, 221_2 \\ \hline \\ 263_4 \\ 40 \\ 427_8 \\ 351_2 \\ 113_8 \\ 83_8 \\ 8 \\ 251_2 \\ 8 \\ 8 \\ 8 \\ 251_2 \\ 8 \\ 8 \\ 221_4 \\ 95_8 \\ 221_4 \\ \end{array}$	$\begin{array}{c} D_2 \\ \hline \\ \text{Height,} \\ 43; \\ \text{hip, 24} \\ \hline \\ 2614 \\ 433 \\ 235 \\ 433 \\ 235 \\ 113 \\ 355 \\ 835 \\ 835 \\ 835 \\ 835 \\ 835 \\ 835 \\ 99 \\ 99 \\ 99 \\ 99 \\ 99 \\ 4223 \\ 834 \\ 99 \\ 99 \\ 1223 \\ 834 \\ 90 \\ 1223 \\ 120 \\$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 11. \\ 12. \\ 13. \\ 14. \\ 15. \\ 16 \end{array}$	Item No. and measurement Waist heightinches. Hip height	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 42/3; \\ hip, 21/2 \\ 257/4 \\ 2054 \\ 301/2 \\ 4254 \\ 351/4 \\ 1134 \\ 1134 \\ 1134 \\ 1134 \\ 351/4 \\ 351/4 \\ 1134$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/6\\ 203/4\\ 40\\ 427/8\\ 351/2\\ 113_5\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 221/5\\ 43/4\\ 111/4\\ 111/4\\ \end{array}$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{hip, 24} \\ \hline \\ 2013 \\ 4312 \\ 4312 \\ 4313 \\ 4312 \\ 4312 \\ 4312 \\ 4312 \\ 4312 \\ 432 \\ 512 $
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 133. 144. 155. 166. 117. 117. 117. 117. 117. 117. 117	Item No. and measurement Waist heightinches Hip heightdo Weightpounds. Stature	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 42 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 2034\\ 40\\ 427/8\\ 351/2\\ 113\\ 8\\ 183\\ 8\\ 251/2\\ 8\\ 7\\ 8\\ 7\\ 8\\ 9\\ 8\\ 251/2\\ 8\\ 8\\ 7\\ 8\\ 9\\ 8\\ 251/2\\ 8\\ 8\\ 7\\ 8\\ 9\\ 8\\ 251/2\\ 4\\ 111/4\\ 111/4\\ \end{array}$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{20;4} \\ \mathbf{20;4} \\ \mathbf{20;4} \\ \mathbf{33;5} \\ 33;5$
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 13. 114. 15. 16. 17. 18. 115. 16. 17. 18. 115. 115. 115. 115. 115. 115. 115.	Item No. and measurement Waist height inches. Hip height do. Stature modes. Cervicale height do. Thiale height do. Crotch height do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior waist length do. Posterior waist length do. Posterior hip arc. do. Posterior hip arc. do. Posterior hip arc. do. Posterior chest girth do. Posterior chest girth do.	$\begin{array}{c} & B_{2} \\ \hline \\ Height, & 4295; \\ 4295; \\ 4295; \\ 200% \\ 3612; \\ 200% \\ 3612; \\ 3612; \\ 3612; \\ 3612; \\ 756; \\ 255; \\ 774; \\ 8156; \\ 936; \\ 936; \\ 936; \\ 936; \\ 945; \\ 945; \\ 1032; \\ 1114; \\ 4156; \\ 1032; \\ 1114; \\ 4156; \\ 1032; \\ 1114; \\ 11$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 22J_2\\ 26J_2\\ 2034\\ 40\\ 4276\\ 35J_2\\ 113\\ 8\\ 8\\ 8\\ 25J_2\\ 8\\ 25J_2\\ 8\\ 8\\ 25J_2\\ 8\\ 93\\ 8\\ 93\\ 8\\ 93\\ 8\\ 93\\ 8\\ 93\\ 8\\ 113\\ 4\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 8\\ 113\\ 4\\ 115\\ 8\\ 115\\ 8\\ 113\\ 4\\ 115\\ 8\\ 115\\ 8\\ 113\\ 115\\ 8\\ 115\\ 115\\ 115\\ 115\\ 115\\ 115\\ $	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{hip, 24} \\ \hline \\ 2014 \\ 2014 \\ 3554 $
1.2.3.4.5.6.7.8.9.0.1.12.3.4.5.6.7.8.9.01.12.3.4.5.6.7.8.9.01.12.3.4.5.6.7.8.9.0001.12.3.4.5.6.7.8.9.000000000000000000000000000000000	Item No. and measurement Waist height inches. Hip height do. Weight pounds. Stature inches. Cervicale height do. Thiale height do. Croteh height do. Stature do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior chest width do. Posterior waist length do. Posterior rhest girth at armscye do. Posterior rhip arc. do. Anterior chest girth do. Rowinnum chest girth do. Maximum chest girth do. Matig girth do.	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 42/5; \\ hip, 21/2 \\ 257_3 \\ 205_8 \\ 301_2 \\ 425_8 \\ 301_2$	$\begin{array}{c} C_2 \\ \hline Height, \\ 43; \\ hip, 221/2 \\ \hline \\ 2034 \\ 40 \\ 427.8 \\ 351/2 \\ 1138 \\ 8 \\ 8 \\ 251/2 \\ 8 \\ 8 \\ 251/2 \\ 8 \\ 8 \\ 221 \\ 434 \\ 1134 \\ 115 \\ 434 \\ 1114 \\ 115 \\ 8 \\ 958 \\ 221 \\ 375 \\ 114 \\ 115 \\ 958 \\ 221 \\ 375 \\ 114 \\ 115 \\ 958 \\ 221 \\ 375 \\ 114 \\ 115 \\ 958 \\ 221 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 114 \\ 115 \\ 375 \\ 115 \\ 114 \\ 115 \\ 114 \\ 115 \\ 115 \\ 114 \\ 115$	$\begin{array}{c} D_2 \\ \hline \\ \text{Height,} \\ 43; \\ \text{hip, 24} \\ \hline \\ 26l43 \\ 43^{12} \\ 43^{3} \\ 235 \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 8^{3} \\ 9^{4} \\ 9^{4} \\ 4^{3} \\ 4^{3} \\ 11^{2} \\ 20^{3} \\ 4^{3} \\ 20^{3} \\ 4^{2} \\ 4^{3} \\ 4^{$
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 112. 13. 14. 15. 16. 17. 112. 114. 15. 16. 17. 119. 221. 120. 121. 121. 121. 121. 121. 121	Item No. and measurement Waist heightinches. Hip heightdo Weightdo Weight	$\begin{array}{c} & B_{2} \\ \hline \\ Height, & 422\%; \\ hip, 211\% \\ 2257_{8} \\ 205\% \\ 3351\% \\ 3351\% \\ 3351\% \\ 1114 \\ 183\% \\ 75\% \\ 355\% \\ 75\% \\ 95\% \\ 95\% \\ 95\% \\ 95\% \\ 95\% \\ 95\% \\ 103\% \\ 104\% \\ 101\% \\ 111\% \\ 1021\% \\ 103\% \\ 105\% \\ 100\% \\ $	$\begin{array}{c} C_{2} \\ \hline \\ Height, \\ 43; \\ hip, 22!_2 \\ \hline \\ 2034 \\ 40 \\ 4278 \\ 35!_2 \\ 1133 \\ 8 \\ 8 \\ 25!_2 \\ 1134 \\ 8 \\ 8 \\ 25!_2 \\ 958 \\ 958 \\ 22!_3 \\ 434 \\ 1134 \\ 1134 \\ 1138 \\ 1034 \\ 1075 $	$\begin{array}{c} {\rm D}_2 \\ \\ {\rm Height, } _{43;} \\ {\rm 43;} \\ {\rm hip, 24} \\ \\ \\ 22614 \\ {\rm 43}^2 \\ {\rm 43}^3 \\ {\rm 43}^3 \\ {\rm 43}^3 \\ {\rm 55\%} \\ {\rm 83\%} \\ {\rm 84\%} \\ {\rm 95\%} \\ {\rm 111\%} \\ {\rm 111\%} \\ {\rm 111\%} \\ {\rm 203\%} \\ {\rm 24\%} \\ {\rm 111\%} \\ {\rm 24\%} \\ {\rm 111\%} \\ {\rm 110\%} \\ {\rm 10\%} \\ {\rm$
1.2.3.4.5.6.7.8.9.0.1.12.3.4.15.6.7.8.9.0.1.12.3.4.15.6.7.8.9.0.1.12.3.4.15.6.17.8.19.0.1.222.222.222.222.222.222.222.222.222	Item No. and measurement Waist heightinches. Hip heightdo Weightdo Weightdo Cervicale heightdo. Tihiale heightdo. Crotch heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Anterior waist lengthdo. Posterior chest widthinches. Anterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Neth at armsyedo. Scye depthdo. Maximum chest girthdo. Anterior chest arcdo. Maist girthdo. Neck-hase girthdo.	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 42/3; \\ hip, 21/2 \\ 257/8 \\ 2058 \\ 361/2 \\ 4256 \\ 351/3 \\ 351/3 \\ 351/3 \\ 351/3 \\ 351/3 \\ 351/3 \\ 458 \\ 111/4 \\ 103/2 \\ 103/2 \\ 111/4 \\ 103/4 \\ 218/8 \\ 103/4 \\ 22/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\ 20/8 \\ 103/4 \\$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 2034\\ 40\\ 4278\\ 351/2\\ 113\\ 8\\ 8\\ 351/2\\ 113\\ 8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 8\\ 103\\ 6\\ 107\\ 6\\ 27\\ 8\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 8\\ 27\\ 8\\ 27\\ 8\\ 8\\ 27\\ 8\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 27\\ 8\\ 8\\ 27\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \text{Height,} \\ 43; \\ 43; \\ 14; \\ 2015 \\ 4312 \\ 433 \\ 2015 \\ 433 \\ 2015 \\ 834 \\ 2015 \\ 834 \\ 2015 \\ 834 \\ 2015 \\ 834 \\ 2015 \\ 834 \\ 2015 \\ 112 \\ 2034 \\ 1136 \\ 122 \\ 2034 \\ 1156 \\ 312 \\ 2015 \\ 124 \\ 2015 \\ 124 \\ 2015 \\ 1156 \\ 124 \\ 2015 \\ 124 \\ 1156 \\ 124 \\ 2015 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 124 \\ 124 \\ 1156 \\ 124 \\ 124 \\ 124 \\ 124 \\ 1156 \\ 124 \\ $
1.2.3.4.5.6.7.8.9.0.1.12.3.14.15.16.17.8.9.0.1.12.3.14.15.16.17.8.9.0.1.22.3.14.15.16.17.8.9.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.1.22.3.14.15.16.17.18.19.0.15.17.18.19.0.15.17.18.19.0.17.18.19.19.19.19.19.19.19.19.19.19.19.19.19.	Item No. and measurement Waist height	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 42 \frac{1}{25}; \\ hip, 21 \frac{1}{2}; \\ 20 \frac{5}{3}; \\ 20 \frac{5}{3}; \\ 30 \frac{1}{2}; \\ 42 \frac{5}{3}; \\ 42 \frac{5}{3}; \\ 42 \frac{5}{3}; \\ 42 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 9 \frac{5}{3}; \\ 9 \frac{5}{3}; \\ 9 \frac{5}{3}; \\ 11 \frac{1}{4}; \\ 10 \frac{3}{2}; \\ 11 \frac{1}{4}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 10 \frac{3}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; \\ 21 \frac{5}{3}; \\ 10 \frac{1}{4}; \\ 21 \frac{5}{3}; $	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 2034\\ 40\\ 427/8\\ 351/2\\ 113\\ 8\\ 183\\ 8\\ 351/2\\ 113\\ 8\\ 7\\ 87/8\\ 93\\ 8\\ 251/2\\ 8\\ 7\\ 87\\ 8\\ 93\\ 8\\ 221\\ 4\\ 111/4\\ 115/4\\ 115/4\\ 227\\ 8\\ 101/6\\ 27/8\\ 10\\ 61/2\\ \end{array}$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{43;} \\ 2014 \\ 2014 \\ 2014 \\ 3354 \\ 3354 \\ 3354 \\ 335554 \\ 33554 \\ 33554 \\ 33554 \\ 33554 \\ 33554 \\ $
1.2.3.4.5.6.7.8.9.0.1.12.13.14.15.16.7.8.9.0.1.12.13.14.15.16.7.8.9.0.1.12.22.3.4.15.16.7.8.9.0.12.23.4.15.16.7.8.9.0.12.23.4.15.16.7.8.9.0.12.23.4.15.16.7.8.9.0.17.23.4.15.16.7.8.9.0.17.23.4.15.16.7.8.9.0.17.23.4.15.16.7.8.9.0.17.23.4.5.15.17.8.9.0.17.23.4.5.5.7.8.9.0.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	Item No. and measurement Waist height	$\begin{array}{c} & B_2 \\ \hline \\ Height, & 422\%; \\ hip, 211\% \\ 225\% \\ 301\% \\ 303\% \\ 30$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 221/2 \\ \hline \\ 2034 \\ 40 \\ 427.8 \\ 351/2 \\ 1138 \\ 8 \\ 8 \\ 251/2 \\ 8 \\ 8 \\ 251/2 \\ 8 \\ 8 \\ 221 \\ 434 \\ 1138 \\ 1038 \\ 225 \\ 8 \\ 221 \\ 434 \\ 1114 \\ \hline \\ 115 \\ 8 \\ 225 \\ 8 \\ 221 \\ 6 \\ 225 \\ 8 \\ 201 \\ 1078 \\ 225 \\ 8 \\ 1078 \\ 275 \\ 1078 \\ 1078 \\ 275 \\ 1078 \\ 275 \\ 1078 \\ 275 \\ 1078 \\ 1078 \\ 275 \\ 1078 \\ 1078 \\ 275 \\ 1078 \\ 275 \\ 1078 \\ 1078 \\ 275 \\ 1078 $	$\begin{array}{c} {\rm D}_2 \\ \\ {\rm Height,}\\ {\rm 43;}\\ {\rm 43;}\\ {\rm hip,24} \\ \\ \\ 26l_4 \\ {\rm 201\%}\\ {\rm 433}\\ {\rm 355\%}\\ {\rm 433}\\ {\rm 2355\%}\\ {\rm 113\%}\\ {\rm 2355\%}\\ {\rm 113\%}\\ {\rm 235\%}\\ {\rm 235\%}\\ {\rm 235\%}\\ {\rm 243\%}\\ {$
1.2.3.4.5.6.7.8.9.0.112.3.14.15.16.17.18.9.0212.223.1222.224.225.226.	Item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Weightdo. Statureinches. Cervicale heightdo. Crotch heightdo. Crotch heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior waist lengthdo. Posterior chest widthinches. Anterior waist lengthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Scye depthdo. Scye depthdo. Maximum chest girthdo. Maximum chest girthdo. Maximum chest girthdo. Maximum chest girthdo. Anterior chest arcdo. Maximum chest girthdo. Anterior chest arcdo. Maximum chest girthdo. Anterior chest arcdo. Maximum chest girthdo. Hip girthdo. Shoulder lengthdo. Lipper posterior arm lengthdo.	$\begin{array}{c} & B_{2} \\ \hline \\ Height, & 422\%; \\ hip, 211\% \\ 2257\% \\ 301\% \\ 3351$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 22!_2 \\ \hline \\ 2034 \\ 40 \\ 4278 \\ 35!_2 \\ 113 \\ 35!_2 \\ 113 \\ 35!_2 \\ 113 \\ 8 \\ 8 \\ 25!_2 \\ 8 \\ 8 \\ 22!_3 \\ 434 \\ 114 \\ 115 \\ 419 \\ 422! \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 8 \\ 21 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 8 \\ 21 \\ 8 \\ 101 \\ 8 \\ 8 \\ 8 \\ 8 \\ 101 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 8 \\ 8 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 8 \\ 101 \\ 10$	$\begin{array}{c} {\rm D}_2 \\ \\ {\rm Height, } _{43;} \\ {\rm 43;} \\ {\rm hip, 24} \\ \\ \\ 22614 \\ {\rm 43}^2 \\ {\rm 43}^3 \\ {\rm 43}^3 \\ {\rm 43}^3 \\ {\rm 55\%} \\ {\rm 83\%} \\ {\rm 83\%} \\ {\rm 83\%} \\ {\rm 83\%} \\ {\rm 95\%} \\ {\rm 95$
1.2.3.4.5.6.7.8.9.0.112.3.4.15.16.17.8.19.021.2223.225.225.225.225.225.225.225.225.22	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Statureinches. Cervicale heightdo. Tihiale heightdo. Tihiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior waist lengthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior waist lengthdo. Scye depthdo. Scye depthdo. Nestrior chest girthdo. Anterior chest girthdo. Maximum chest girthdo. Anterior chest aredo. Maximum chest girthdo. Anterior chest aredo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Chest girthdo. Stever and arm girthdo. Scye dotdo. Stever and arm girthdo. Chest girthdo. Shoulder lengthdo. Armscye girthdo. Elbow girthdo.	$\begin{array}{r} & B_2 \\ \hline \\ Height, & 42/3; \\ hip, 21/2 \\ 257/8 \\ 2058 \\ 361/2 \\ 4256 \\ 351/3 \\ 351/3 \\ 458 \\ 75^6 \\ 351/3 \\ 458 \\ 111/4 \\ 133 \\ 934 \\ 458 \\ 103/2 \\ 103/4 \\ 2158 \\ 458 \\ 103/4 \\ 2158 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 213/8 \\ 103/4 \\ 103/4 \\ 213/8 \\ 103/4 \\ 103/4 \\ 213/8 \\ 103/4 $	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 2034\\ 40\\ 4278\\ 351/2\\ 113\\ 8\\ 8\\ 351/2\\ 113\\ 8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 8\\ 5\\ 251/2\\ 8\\ 8\\ 8\\ 7\\ 8\\ 221/2\\ 43\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 4\\ 113\\ 6\\ 227\\ 8\\ 107\\ 6\\ 27\\ 8\\ 10\\ 61/2\\ 71\\ 8\\ 21/2\\ 14\\ 7\\ 8\\ 12\\ 7\\ 14\\ 7\\ 8\\ 12\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 7\\ 14\\ 7\\ 8\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{2015} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{835} \\ \textbf{935} \\ \textbf{835} \\ \textbf{935} \\ \textbf{835} \\ \textbf{935} \\ $
1.2.3.4.5.6.7.8.9.0.1.1.2.3.4.1.5.6.17.8.9.0.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	Item No. and measurement Waist height inches. Hip height do. Stature pounds. Stature inches. Cervicale height do. Thiale height do. Octoth height do. Bitroehanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior waist length do. Posterior waist length do. Posterior waist length do. Posterior chest width do. Posterior thip arcdo. do. Posterior thip arcdo. do. Scyce depth do. Maximum chest girth do. Maxingum chest girth do. Maxingum chest girth do. Shoulder length do. Neck-hase girth do. Veger-arm girth do. Upper-arm girth do. Upper posterior arm length do. Uppe	$\begin{array}{r} & B_{2} \\ \hline \\ Height, & 429; \\ 429; \\ hip, 211/2 \\ 205/3 \\ 206/3 \\ 361/2 \\ 361/2 \\ 361/2 \\ 361/2 \\ 361/2 \\ 111/4 \\ 183 \\ 255 \\ 75 \\ 835 \\ 215 \\ 835 \\ 103/2 \\ 103/4 \\ 103/4 \\ 215 \\ 103/4 \\ 103$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 221/2 \\ \hline \\ 2034 \\ 40 \\ 4276 \\ 351/2 \\ 113/2 \\ 113/2 \\ 183/8 \\ 83/8 \\ 93/8 \\ 93/8 \\ 93/8 \\ 251/2 \\ 87/8 \\ 93/8 \\ 101/2 \\ 225/8 \\ 101/2 \\ 225/8 \\ 101/2 \\ 225/8 \\ 101/2 \\ 27/8 \\ 101/2 \\ 27/8 \\ 101/2 \\ 27/8 \\ 101/2 \\ 53/2 \\ 147/8 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 53/2 \\ 10/2 \\ 1$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ \mathbf{43;} \\ \mathbf{43;} \\ \mathbf{10;} \\ \mathbf{20;} \\ 43 \\ \mathbf{20;} \\ 43 \\ \mathbf{20;} \\ 43 \\ \mathbf{21;} \\ \mathbf{20;} \\ 43 \\ \mathbf{21;} \\ \mathbf{221;} \\ \mathbf{83;} \\ \mathbf{83;} \\ \mathbf{93;} \\ \mathbf{93;} \\ \mathbf{93;} \\ \mathbf{93;} \\ \mathbf{222;} \\ \mathbf{93;} \\ \mathbf{33;} \\ \mathbf{11;} \\ \mathbf{33;} \\ 3$
1.2.3.4.5.6.7.8.9.101.112.114.115.1167.1120.11222.224.1122222.224.112222.224.112222.224.112222.2222.2222.2222.2222.2222.2222.2222.2222	Item No. and measurement Waist height inches. Hip height do. Weight pounds. Stature inches. Cervicale height do. Thiale height do. Octoch height do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior thest width do. Posterior thest girth do. Posterior rhest girth do. Anterior dest girth do. Posterior hest arc. do. Posterior rhest girth do. Anterior dest girth do. Anterior effest arc. do. Neck-hase girth do. Shoulder length do. Shoulder length do. Shoulder length do. Upper arm girth do. Upper posterior arm length do. Trank line do. Thisp girth do.	$\begin{array}{c} \textbf{B}_2 \\ \hline \textbf{Height,} \\ 422\%; \\ hip, 211\% \\ 205\% \\ 301\% \\ 303\% \\ 205\% \\ 303\% \\ 205\% \\ 303\% \\ 75\% \\ 93\% \\ 93\% \\ 93\% \\ 93\% \\ 93\% \\ 93\% \\ 103\% \\ 215\% \\ 103\% \\ 103\% \\ 21\% \\ 103\% \\ 103\% \\ 104\% \\ 1$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 221/2 \\ \hline \\ 2034 \\ 40 \\ 427.8 \\ 351/2 \\ 1138 \\ 8 \\ 8 \\ 251/2 \\ 8 \\ 251/2 \\ 8 \\ 221 \\ 434 \\ 113 \\ \hline \\ 115 \\ 438 \\ 1078 \\ 221 \\ 8 \\ 1078 \\ 225 \\ 113 \\ \hline \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 10$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{hip, 24} \\ \hline \\ 2614 \\ \textbf{2015} \\ \textbf{433} \\ \textbf{2312} \\ \textbf{433} \\ \textbf{355} \\ \textbf{433} \\ \textbf{355} $
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 101. \\ 12. \\ 13. \\ 14. \\ 15. \\ 16. \\ 17. \\ 120. \\ 223. \\ 224. \\ 225. \\ 229. \\ 230. \\ 311. \\ \end{array}$	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Stature	$\begin{array}{c} B_2 \\ \\ Height, \ 422\%; \ hip, 211\% \\ 2257\% \\ 301\% \\ 335\% $	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 221/2 \\ \hline \\ 2034 \\ 40 \\ 4278 \\ 351/2 \\ 1138 \\ 8 \\ 251/2 \\ 8 \\ 8 \\ 251/2 \\ 1138 \\ 8 \\ 8 \\ 251/2 \\ 1134 \\ 1934 \\ 221/8 \\ 1078 \\$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{hip, 24} \\ \hline \\ \textbf{2014} \\ \textbf{2014} \\ \textbf{4312} \\ \textbf{4312} \\ \textbf{4312} \\ \textbf{4332} \\ \textbf{4332} \\ \textbf{558} \\ \textbf{832} \\ \textbf{832} \\ \textbf{832} \\ \textbf{958} \\ \textbf{115} \\ \textbf{558} \\ \textbf{558} \\ \textbf{558} \\ \textbf{924} \\ \textbf{914} \\ \textbf{914} \end{array}$
1.2.3.4.5.6.7.8.9.0.1112.3.14.5.6.7.8.9.0.1112.3.14.5.6.7.8.9.0.1112.3.14.5.6.7.8.9.0.1112.222.222.2222.2222.2222.2222.22	Item No. and measurement Waist height inches. Hip height do. Hip height do. Stature inches. Cervicale height do. Trihiale height do. Crotch height do. Stature inches. Cervicale height do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior chest width inches. Anterior waist length do. Posterior waist length do. Posterior waist length do. Posterior hip arc. do. Review and the stare. do. Posterior enest arc. do. Neck-hase girth do. Neck-hase girth do. Shoulder length do. Veper-arm girth do. Upper posterior arm length do. Upper posterior arm length do. Upper posterior arm length do. Trank line do. Thigh girth do. </td <td>$\begin{array}{c} B_2 \\ \\ Height, \ 422\%; \ hip, 2132 \\ 2574 \\ 2058 \\ 3652 \\ 3554 \\ 3554 \\ 3554 \\ 1114 \\ 1134 \\ 1334 \\ 7558 \\ 3554 \\ 1134 \\ 1032 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\$</td> <td>$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 203/4\\ 40\\ 427.8\\ 351/2\\ 113/8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 251/2\\ 8\\ 221/2\\ 43/4\\ 111/4\\ 115/8\\ 4225/8\\ 107.6\\ 27.8\\ 10\\ 61/2\\ 71/8\\ 225/8\\ 10\\ 61/2\\ 71/8\\ 53/8\\ 13\\ 38/4\\ 91/4\\ 101/2\\$</td> <td>$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{2015} \\ \textbf{433} \\ \textbf{24} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{834} \\ \textbf{935} \\ \textbf{834} \\ \textbf{1135} \\ \textbf{3303} \\ \textbf{1135} \\ \textbf{1135} \\ \textbf{1135} \\ \textbf{3303} \\ \textbf{1135} \\ 113$</td>	$\begin{array}{c} B_2 \\ \\ Height, \ 422\%; \ hip, 2132 \\ 2574 \\ 2058 \\ 3652 \\ 3554 \\ 3554 \\ 3554 \\ 1114 \\ 1134 \\ 1334 \\ 7558 \\ 3554 \\ 1134 \\ 1032 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\ 1032 \\ 1134 \\ 1032 \\$	$\begin{array}{c} C_2.\\ \hline Height, \\ 43;\\ hip, 221/2\\ \hline 261/8\\ 203/4\\ 40\\ 427.8\\ 351/2\\ 113/8\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 251/2\\ 8\\ 8\\ 251/2\\ 8\\ 221/2\\ 43/4\\ 111/4\\ 115/8\\ 4225/8\\ 107.6\\ 27.8\\ 10\\ 61/2\\ 71/8\\ 225/8\\ 10\\ 61/2\\ 71/8\\ 53/8\\ 13\\ 38/4\\ 91/4\\ 101/2\\$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{43;} \\ \textbf{2015} \\ \textbf{433} \\ \textbf{24} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{433} \\ \textbf{2335} \\ \textbf{834} \\ \textbf{935} \\ \textbf{834} \\ \textbf{1135} \\ \textbf{3303} \\ \textbf{1135} \\ \textbf{1135} \\ \textbf{1135} \\ \textbf{3303} \\ \textbf{1135} \\ 113$
1.2.3.4.5.6.7.8.9.1112.1314.15.116.7.8.9.0.1112.222.222.2222.2222.2222.2222.22	Item No. and measurement Waist height inches. Hip height do. Stature pounds. Stature inches. Cervicale height do. Thiale height do. Crotch height do. Bitrochanteric diameter do. Shoulder slope degrees. Anterior waist length do. Posterior hip arc	$\begin{array}{c} & B_{2} \\ \hline \\ Height, & 429; \\ 429; \\ 429; \\ 2005, & 305, \\$	$\begin{array}{c} C_2 \\ \hline Height, \\ 43; \\ hip, 221/2 \\ \hline 2034 \\ 40 \\ 4278 \\ 351/2 \\ 1138 \\ 835 \\ 251/2 \\ 878 \\ 9358 \\ 221/3 \\ 434 \\ 1134 \\ $	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \mathbf{Height,} \\ 43; \\ \mathbf{hip, 24} \\ \hline \\ 26l43 \\ 2078 \\ 4312 \\ 433 \\ 2014 \\ 335 \\ 813 \\ 934 \\ 221 \\ 813 \\ 934 \\ 227 \\ 813 \\ 934 \\ 227 \\ 934 \\ 227 \\ 113 \\ 819 \\ 227 \\ 113 \\ 109 \\ 819 \\ 210 \\ 111 \\ 111 \\ 111 \\ 109 \\ 819 \\ 111 \\ 111 \\ 109 \\ 819 \\ 111 \\ 111 \\ 109 \\ 819 \\ 111 \\ 111 \\ 109 \\ 819 \\ 111 \\ 111 \\ 109 \\ 819 \\ 111 \\ 111 \\ 111 \\ 109 \\ 111 \\$
$\begin{array}{c} 1.2 \\ 3.4 \\ 5.6 \\ 7.8 \\ 9.0 \\ 112 \\ 13.4 \\ 15.6 \\ 107 \\ 122 \\ 223 \\ 225 \\ 225 \\ 225 \\ 225 \\ 225 \\ 225 \\ 230 \\ 334$	Item No. and measurement Waist height inches. Hip height do. Weight pounds. Stature inches. Cervicale height do. Thiale height do. Stature do. Diricehanteric diameter do. Stature do. Cervicale height do. Octotch height do. Stature do. Bitrochanteric diameter do. Posterior waist length do. Posterior waist length do. Posterior waist length do. Posterior hest girth do. Maximum chest girth do. Matig tirth do. Shoulder length do. Anterior chest arc. do. Shoulder length do. Shoulder length do. Shoulder length do. Shoulder length do. Trunk line do. Waist to hips do. Trunk line do.	$\begin{array}{c} B_2 \\ \\ Height, \ 422\%; \ hip, 211\% \\ 225\% \\ 301\% \\$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 22!_2 \\ \hline \\ 2034 \\ 40 \\ 4278 \\ 35!_2 \\ 1138 \\ 8 \\ 8 \\ 2034 \\ 40 \\ 4278 \\ 35!_2 \\ 1138 \\ 8 \\ 8 \\ 25!_2 \\ 8 \\ 22!_3 \\ 434 \\ 1134 \\ 115 \\ 438 \\ 1078 \\ 22!_8 \\ 22!_3 \\ 434 \\ 1134 \\ 115 \\ 8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 22!_8 \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 218 \\ 1078 \\ 1078 \\ 218 \\ 1078 \\ 1$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \textbf{Height,} \\ 43; \\ \textbf{hip, 24} \\ \hline \\ 2614 \\ 2075 \\ 433 \\ 2355 \\ 433 \\ 2355 \\ 433 \\ 2355 \\ 2355 \\ 2355 \\ 2355 \\ 355 \\ 355 \\ 357 \\ 434 \\ 117 \\ 35 \\ 357 \\ 115 \\ 55 \\ 55 \\ 55 \\ 55 \\ 55 \\ 55 \\$
$\begin{array}{c} 1. \\ 2. \\ 3. \\ 4. \\ 5. \\ 6. \\ 7. \\ 8. \\ 9. \\ 10. \\ 113. \\ 14. \\ 15. \\ 113. \\ 14. \\ 15. \\ 122. \\ 223. \\ 224. \\ 227. \\ 229. \\ 301. \\ 333. \\ 345. \\ 366. \\ 334. \\ 355. \\ 366.$	Item No. and measurement Waist heightinches. Hip heightdo Weightpounds. Stature	$\begin{array}{c} B_2 \\ \\ Height, \\ 422\%; \\ hip, 211\% \\ 205\% \\ 301\% \\ 335\% \\ 425\% \\ 335\% \\ 435\% \\ 75\% \\ 95\% \\ 95\% \\ 95\% \\ 95\% \\ 95\% \\ 45\% \\ 1114 \\ 1034 \\ 95\% \\ 95\% \\ 45\% \\ 1114 \\ 1034 \\ 1034 \\ 1034 \\ 1034 \\ 1114 \\ 1034 \\ 10$	$\begin{array}{c} C_2 \\ \hline \\ Height, \\ 43; \\ hip, 22!/2 \\ \hline \\ 2034 \\ 40 \\ 4276 \\ 35!/2 \\ 1135 \\ 8 \\ 8 \\ 25!/2 \\ 1135 \\ 8 \\ 8 \\ 25!/2 \\ 1135 \\ 1135 \\ 22!/2 \\ 434 \\ 22!/2 \\ 1078 \\ 22!/2 \\ 1001 \\ 22!/2$	$\begin{array}{c} \mathbf{D}_2 \\ \hline \\ \text{Height,} \\ 43; \\ 43; \\ 14; \\ 43; \\ 43; \\ 43; \\ 43; \\ 43; \\ 43; \\ 43; \\ 83; \\ 83; \\ 83; \\ 83; \\ 83; \\ 43; \\ 43; \\ 11; \\ 83; \\ 43; \\ 11; \\ 83; \\ 11; \\ 83; \\ 11; \\ 11; \\ 11; \\ 11; \\ 11; \\ 11; \\ 11; \\ 12; \\ 22; \\ 14; \\ 11; \\ 12; \\ 22; \\ 14; \\ 11; \\ 12; \\ 22; \\ 14; \\ 11; \\ 12; \\ 22; \\ 14; \\ 13; \\ 10; \\ 15; \\ 5; \\ 15; \\ 5; \\ 15; \\ 5; \\ 15; \\ 5; \\ $

		\mathbf{B}_3	C_3	D_3
	Item No. and measurement	Height, 45; hip, 22	Height, 45; hip, 23½	Height, 45½; hip, 25
1.	Waist height inches	271/2	273/	277
2.	Hip heightdo	221/8	221/8	221
3.	Weightpounds	40	44	48
4.	Statureinches	447/8	$45^{1}/8$	453
5.	Cervicale neightdo	3711	$371/_{2}$	37^{3}_{4}
- 0.	Crotch height	12	121/8	121/4
8	Bitrochenterie diameter do	19%	19%	193/4
- <u>0</u>	Shoulder slope degrees	25	8/4 951/	8%
10.	Anterior chest width inches	20	2372	20
11.	Anterior waist length do	91/2	914	03/
12.	Posterior chest widthdo	95%	934	10 2
13.	Posterior waist lengthdo	10	101/8	101/
14.	Chest girth at armscyedo	$22\frac{1}{8}$	227/8	235
15.	Seyc depthdo	47/8	5	5
16.	Posterior hip arcdo	10%	1158	123
17.	Maximum chest girth			
18.	Anterior chest arc	111/2	117/8	123/8
19.	Walst girth	19%	201/8	21
20.	Noak base girth do	221/8	23%	24%
22	Shoulder length do	10%	21/	1198
23.	Armseve girth do	10	1036	103/
24.	Upper-arm girth do	61/	65/	71
25.	Elbow girthdo	7	71%	75/
26.	Upper posterior arm lengthdo	87/8	9	9
27.	Total posterior arm lengthdo	155/8	1534	15%
28.	Trunk linedo	53/8	53/8	51/4
29.	Waist to hipsdo	55/8	55/8	5^{3}_{4}
30.	Thigh girthdo	121/2	133/8	141/2
31.	Maximum call girth	8%	91/8	95/8
$\frac{32.}{22}$	Total grotab longth do	91/8	107/	10
31	Anterior crotch length do	18%8	18/8	191/2
35	Extreme hend do	1874	191	105/
36	Vertical trunk girth do	387%	395%	403/
37.	Percentage 1 percent	19	55	21
~	¥	D	a	

		Bi	C4	D_4
	Item No. and measurement	Height, 47; hip, 23	Height, 47½; hip, 24	Height, 47½; hip, 25½
1.	Waist height	291/2	293%	295%
$\overline{2}$	Hip height do	233%	235%	235%
3.	Weight pounds	441%	48	53
4.	Stature inches	4714	471/2	475%
ŝ.	Cervicale heightdo	3914	391/2	3934
6.	Tihiale heightdo	1234	127%	13
7.	Crotch heightdo	21	21	21
8.	Bitrochanteric diameter do	81/4	81/2	9
9.	Shoulder slopedegrees	25	251/2	26
10.	Anterior chest widthinches	83/8	85/8	87/8
u.	Anterior waist lengthdo	91/2	95/8	93/4
12.	Posterior chest widthdo	97.8	$10^{1}/8$	10^{1}_{4}
13.	Posterior waist lengthdo	$10^{3}/8$	$10^{1/2}$	1058
14.	Chest girth at armscyedo	22^{7}_{8}	$231/_{2}$	243/8
15.	Scye depthdo	5	51/8	51/4
16.	Posterior hip arcdo	$11^{3}/_{8}$	12	12^{3}_{4}
17.	Maximum chest girthdo	$22^{7}/8$	231/2	$24^{3}/_{8}$
18.	Anterior chest arcdo	$11\frac{7}{8}$	12^{3} /8	1278
19.	Waist girthdo	19^{3}_{4}	$20\frac{1}{2}$	21^{3}_{-8}
20.	Hip girthdo	227_{8}	$24\frac{1}{4}$	$25^{5/8}$
21.	Neck-base girthdo	111/8	113/8	$11^{5/8}$
22.	Shoulder lengthdo	$3\frac{1}{8}$	$3\frac{1}{4}$	31/4
23.	Armseye girthdo	$10^{3}/_{8}$	103/4	11
24.	Upper-arm girthdo	63/8	63/4	$7\frac{1}{4}$
25,	Elbow girthdo	$7\frac{1}{4}$	$7\frac{1}{2}$	73/4
26.	Upper posterior arm lengthdo	93/8	$9\frac{1}{2}$	$9\frac{1}{2}$
27.	Total posterior arm lengthdo	$16^{3}/_{8}$	$16^{5}/8$	163/4
28.	Trunk linedo	55/8	55/8	$5\frac{1}{2}$
29.	Waist to hipsdo	$5^{7}/_{8}$	57/8	6
30.	Thigh girthdo	13	137/8	141/8
31.	Maximum calf girthdo	9	93/8	$97/_{8}$
32.	Knee girthdo	$9\frac{1}{2}$	97/8	$10^{3}/_{8}$
33.	Total crotch lengthdo	191/8	195/8	203/8
34.	Anterior crotch lengthdo	$91/_{2}$	934	10
35.	Extreme henddo	197/8	$20\frac{1}{4}$	205/8
36.	Vertical trunk girthdo	$401/_{4}$	41	417/8
27	Percentage 1 . percent	17	50	26

See footnotes at end of table.

TABLE 9.— Proposed system of girls' body measurements based on intervals of height and hip measure (symbols, i. e., B₁, C₁, D₁, show corresponding intervals on fig. 4) and designated by approximate height and hip dimensions in inches—Continued

|

 | B₅
 | C ₅ | D_{δ} |
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Item No. and measurement			

 | Height,
49 ¹ ⁄ ₂ ;
hip, 24
 | Height,
50;
hip, 25½ | Height,
50;
hip, 27 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist heightinches

 | 31
 | 311/3 | 318% |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 2. Hip height do

 | 25
1014
 | 251/8 | 251/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 4. Statureinches

 | 495/8
 | 497/8 | 50 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 5. Cervicale height

 | 413/8
 | 415/8 | 413/4 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 7. Crotch heightdo

 | 223/8
 | 223/8 | 223/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 8. Bitrochanteric diameter do
9. Shoulder slope degrees

 | 85/8
25
 | 9
251/2 | 93/8
251/6 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 10. Anterior chest widthinches

 | 83/4
 | 9 | 93/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 11. Anterior waist length do

 | 978
1014
 | 10
10 ¹ /2 | 10
10 ⁵ /3 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 13. Posterior waist lengthdo

 | 107/8
 | 1078 | 11 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 14. Chest girth at armscyedo

 | 23%
 | 24%
53% | 251/4
53/2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 16. Posterior hip arcdo

 | 1178
 | $\frac{121}{2}$ | 133/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 18. Anterior chest arcdo

 | 23%
123%
 | $\frac{24}{12}$ | 231/4
133/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 19. Waist girthdo

 | 201/4
 | 211/8 | 22 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 21. Neck-hase girthdo

 | 111/2
 | 1134 | 2078
1178 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 22. Shoulder lengthdo

 | 33/8
 | 33/8 | $\frac{3^{1}_{2}}{11^{1}_{2}}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 24. Upper-arm girthdo

 | 65/8
 | 7 | $\frac{1172}{71/2}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 25. Elhow girthdo

 | 71/2
97/2
 | 7^{3}_{10} | 81/8
10 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 27. Total posterior arm lengthdo

 | 173/8
 | 175/8 | 173/4 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 28. Trunk line

 | $5^{3}_{4}_{6^{1}_{6}}$
 | 53/4
61/ | 5 ³ /4
6 ³ /2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 30. Thigh girthdo

 | 135/8
 | 145/8 | 155/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 31. Maximum cali girthdo

 | 93/8
10
 | 9%
103% | 10 ¹ / ₄
10 ³ / ₄ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 33. Total crotch lengthdo

 | 20
 | $20^{5}/_{8}$ | 2114 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 34. Anterior crotch lengthdo

 | 10
21
 | 10 ¹ /4
21 ³ /2 | $\frac{10\frac{1}{2}}{21\frac{3}{4}}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 36. Vertical trunk girthdo

 | 417/8
 | 425/8 | 431/2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 37. Fercentage

 | 19
 | | 24 |
 |
 | | | | |
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 |
|

 | B6
 | C 6 | D6 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| Item No. and measurement

 | Height,
 | Height, | Height, |
 |
 | | | | |
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|

 | ^{02;}
hin, 25
 | 52: | 5.7 |
 |
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|

 |
 | hip, 27 | hip, 281/2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1 Waist height inches

 | 393/
 | hip, 27 | hip, 281/2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height

 | 323/4
263/8
 | hip. 27
$32\frac{7}{8}$
$26\frac{5}{8}$ | hip, 281/2
331/4
265/8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches

 | 32^{3}_{4}
26^{3}_{8}
55^{1}_{2}
51^{7}_{6}
 | hip, 27
$32^{7/8}$
$26^{5/8}$
61
$52^{1/4}$ | hip, $28\frac{1}{2}$
$33\frac{1}{4}$
$26\frac{5}{8}$
68
521 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do

 | $\begin{array}{r} 323_{4}\\ 263_{8}\\ 551_{2}\\ 517_{8}\\ 431_{2} \end{array}$
 | hip, 27
$32\frac{1}{8}$
$26\frac{5}{8}$
61
$52\frac{1}{8}$
$43\frac{1}{8}$ | $\begin{array}{r} \text{hip, 281}_{2} \\ \hline \\ 3314 \\ 265 \\ 68 \\ 5214 \\ 44 \\ \end{array}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do

 | $\begin{array}{c} 323_{4} \\ 263_{8} \\ 551_{2} \\ 517_{8} \\ 431_{2} \\ 143_{8} \\ 233_{4} \end{array}$
 | hip, 27
$32\frac{1}{8}$
$265\frac{5}{8}$
61
$52\frac{1}{8}$
$43\frac{1}{8}$
$14\frac{1}{2}$
$23\frac{3}{4}$ | hip, $28\frac{1}{2}$
$33\frac{1}{4}$
$265\frac{1}{8}$
68
$52\frac{1}{4}$
44
$14\frac{1}{2}$
$23\frac{3}{4}$ |
 |
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 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 8. Bitrochanteric diameter do

 | $\begin{array}{c} 32^{3}_{4}\\ 26^{3}_{8}\\ 55^{1}_{2}\\ 51^{7}_{8}\\ 43^{1}_{2}\\ 14^{3}_{8}\\ 23^{3}_{4}\\ 9\end{array}$
 | hip. 27
321%
265%
61
521%
437%
141/2
233/4
93% | hip, $28\frac{1}{2}$
$33\frac{1}{4}$
$26\frac{5}{68}$
$52\frac{1}{4}$
44
$11\frac{1}{2}$
$23\frac{3}{4}$
$9\frac{1}{68}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches

 | $\begin{array}{c} 3234\\ 263\\ 5512\\ 517\\ 4312\\ 143\\ 2334\\ 9\\ 25\\ 914\end{array}$
 | hip. 27
3278
2658
61
5218
1432
2334
9 ³ 8
25
9 ³ 6 | hip, 28½
331/4
265/6
68
521/4
44
141/2
233/4
9 ⁷ /8
251/2
9 ⁷ /8 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do

 | $\begin{array}{c} 3234\\ 263\\ 5512\\ 5512\\ 517\\ 4312\\ 143\\ 233\\ 9\\ 25\\ 91\\ 32\\ 101\\ 4\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105$
 | hip. 27
327.8
265.6
61
521.6
437.5
14 ¹ / ₂
23 ³ / ₄
9 ³ / ₅
25
9 ³ / ₈
10 ¹ / ₄ | hip, $28\frac{1}{2}$
$331\frac{4}{2656}$
68
$52\frac{1}{4}$
$14\frac{1}{2}23\frac{3}{4}$
$9\frac{1}{8}$
$25\frac{1}{2}25\frac{1}{2}$
$9\frac{3}{4}$
$10\frac{3}{8}$ |
 |
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 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width do 13. Posterior waist length do

 | $\begin{array}{c} 3234\\ 2638\\ 5512\\ 5512\\ 5178\\ 4312\\ 1438\\ 2334\\ 9\\ 25\\ 912\\ 1014\\ 1056\\ 1114\end{array}$
 | hip. 27
327_8
265_8
61
521_6
437_8
143_2
233_4
93_8
25
93_8
101_4
107_8
113_6 | hip, $28\frac{1}{2}$
$33\frac{1}{4}$
$26\frac{5}{68}$
68
$52\frac{1}{4}$
44
$14\frac{1}{2}$
$23\frac{3}{4}$
$9\frac{7}{6}$
$25\frac{1}{2}$
$9\frac{3}{4}$
$10\frac{3}{8}$
$11\frac{3}{4}$ |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height

 | $\begin{array}{c} 3234\\ 263\\ 5512\\ 517\\ 4312\\ 143\\ 9\\ 25\\ 9\\ 25\\ 9\\ 25\\ 9\\ 1014\\ 105\\ 8\\ 1114\\ 2412\\
2412\\ $ | $\begin{array}{c} \text{hip. 27} \\ 3274 \\ 265 \\ 61 \\ 521 \\ 437 \\ 141 \\ 233 \\ 4 \\ 93 \\ 5 \\ 93 \\ 101 \\ 4 \\ 107 \\ 8 \\ 113 \\ 253 \\ 5 \\ 253 \\ 5 \\ 253 \\ 5 \\ 253 \\ 5 \\ 5 \\ 253 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\$ | hip, $281/2$
331/4
265/6
68
521/4
44
141/2
233/4
97/6
251/2
93/4
103/6
11
113/6
261/2 |
 |
 | | | | |
 | | | |
 | | | | |
 |
| 1. Waist height

 | $\begin{array}{c} 3234\\ 263\\ 5512\\ 5512\\ 517\\ 4312\\ 143\\ 9\\ 25\\ 9\\ 25\\ 9\\ 1014\\ 105\\ 8\\ 2412\\ 512\\ 512\\ 512\\ 512\\ 512\\ 512\\ 512\\ 5$
 | $\begin{array}{c} \text{hip. 27} \\ 327\$ \\ 265\$ \\ 61 \\ 521\% \\ 437\% \\ 1412 \\ 2334 \\ 93\$ \\ 25 \\ 93\% \\ 107\$ \\ 1107\$ \\ 1107\$ \\ 115\% \\ 253\% \\ 512 \\ 1314 \end{array}$ | hip, 281/2
331/2
68
68
521/4
141/2
233/4
141/2
233/4
91/2
251/2
93/4
113/2
261/2
55/2
113/2
113/2
261/2
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| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width do 13. Posterior chest girth at armscye do 14. Chest girth at armscye do 15. Seye depth do 16. Posterior hip are do 17. Maximum chest girth do

 | $\begin{array}{c} 3234\\ 2638\\ 5512\\ 5178\\ 4332\\ 2334\\ 9\\ 9\\ 2534\\ 1038\\
1038\\ 1038\\$ | hip. 27
$327 \le 265 \le 61$
$527 \le 265 \le 61$
$437 \le 2334$
$9^{3} \le 253 \le 253 \le 253$
10124
$10128 \le 5122$
$10138 \le 5122$
13134
$253 \le 253 \le 253 \le 253$
$253 \le 253 \le 253 \le 253$
$253 \le 253 \le 253 \le 253 \le 253$
$253 \le 253 \le 253$ | $\begin{array}{c} \text{hip, 28} \\ \text{hip, 28} \\ 265 \\ 68 \\ 521 \\ 44 \\ 141 \\ 223 \\ 233 \\ 44 \\ 103 \\ 8 \\ 103 \\ 103 \\ 8 \\ 103 \\ 10$ |
 | |
 | | | | |
 | | | | |
 | | | |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width do 12. Posterior chest width do 13. Posterior chest width do 14. Chest girth at armseye do 15. Seye depth do 16. Posterior hest girth do 17. Maximum chest girth do 18. Anterior chest arc do 19. Maist girth do

 | $\begin{array}{c} 328\\ 3284\\ 2658\\ 5512\\ 5178\\ 4312\\ 2384\\ 9\\ 25\\ 9\\ 25\\ 9\\ 1054\\ 1054\\ 1054\\ 2412\\ 25\\ 5122\\ 8\\ 2412\\ 25\\ 2412\\ 25\\ 2412\\ 25\\ 2412\\ 25\\ 2212\\ 8\\ 2074 \end{array}$
 | $\begin{array}{c} \text{hip. 27} \\ 327 \\ 3265 \\ 265 \\ 437 \\ 521 \\ 522 \\ 334 \\ 9^{3} \\ 253 \\ 9^{3} \\ 9^{3} \\ 253 \\ 1014 \\ 107 \\ 9^{3} \\ 113 \\ 253 \\ 516 \\ 253 \\ 81 \\ 131 \\ 253 \\ 81 \\ 131 \\ 223 \\ 81 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 213 \\ 213 \\ 131 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 213 \\ 131 \\ 131 \\ 213 \\ 131 \\ 131 \\ 213 \\ 131$ | $\begin{array}{c} \text{hip, 23} \\ \text{hip, 23} \\ \hline \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$ |
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 |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width do 13. Posterior waist length do 14. Chest girth at armseye do 15. Seye depth do 16. Posterior in pare do 17. Maximum chest girth do 18. Anterior chest arc do 19. Waist girth do 10. Hip girth do

 | $\begin{array}{c} 323\\ 323\\ 655\\ 265\\ 551\\ 2\\ 517\\ 43\\ 233\\ 4\\ 9\\ 25\\ 9\\ 25\\ 9\\ 23\\ 4\\ 10\\ 4\\ 10\\ 4\\ 10\\ 4\\ 10\\ 4\\ 24\\ 12\\ 3\\ 24\\ 22\\ 5\\ 22\\ 20\\ 4\\ 25\\ 12\\ 3\\ 20\\ 12\\ 3\\ 25\\ 12\\ 12\\ 3\\ 25\\ 12\\ 12\\ 12\\ 12\\
12\\ 12\\ 12\\ 12\\ 12\\ 12$ | $\begin{array}{c} \text{hip. 27} \\ 32^{7} \pm \\ 26^{5} \pm \\ 61 \\ 521 \pm \\ 43^{7} \pm \\ 23^{3} \pm \\ 23^{3} \pm \\ 9^{3} \pm \\ 9^{3} \pm \\ 9^{3} \pm \\ 10^{1} \pm \\ 11^{3} \pm \\ 25^{3} \pm \\ 11^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 26^{3} \pm \\ 26^$ | $\begin{array}{c} \text{hip, 25}, \\ \ \text{hip, 25},$ |
 | | | | |
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 | | |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width inches 13. Posterior waist length do 14. Chest girth at armscye do 15. Seye depth do 16. Posterior in pare do 17. Maximum chest girth do 18. Anterior chest arc do 19. Waist girth do 20. Hip girth do 21. Neek-hase girth do 22. Shoulder length do

 | $\begin{array}{c} 3284\\ 3284\\ 2659\\ 5512\\ 5178\\ 4312\\ 2384\\ 9\\ 25\\ 925\\ 925\\ 1014\\ 1014\\ 1114\\ 2412\\ 522\\ 1238\\ 2452\\ 1278\\ 2452\\ 1278\\ 312\\ 338\\ 2552\\ 358\\ 358\\ 358\\ 358\\ 358\\ 358\\ 358\\ 358$
 | $\begin{array}{c} \text{hip. 27} \\ 32^{7} \pm \\ 26^{5} \pm \\ 61 \\ 521 \pm \\ 43^{7} \pm \\ 93 \pm \\ 93 \pm \\ 93 \pm \\ 93 \pm \\ 10^{1} \pm \\ 10^{1} \pm \\ 11^{3} \pm \\ 25^{3} \pm \\ 11^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 26^{3} \pm \\ 12 \\ 35 \pm \\ 35 \pm$ | $\begin{array}{c} \text{hip, 25}, \\ \text{hip, 26}, \\ \\text{hip, 26}, \\ \ \text{hip, 26}$ | | | |
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 | | |
| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width do 13. Posterior chest width do 15. Seye depth do 16. Posterior in parc do 17. Maximum chest girth do 18. Anterior chest arc do 19. Waist girth do 20. Hip girth do 21. Neek-hase girth do 22. Shoulder length do 23. Armseye girth do 24. Upper-arm girth do

 | $\begin{array}{c} 323\\ 323\\ 263\\ 551\\ 2\\ 517\\ 8\\ 43\\ 143\\ 9\\ 25\\ 101\\ 4\\ 105\\ 101\\ 4\\ 105\\ 101\\ 4\\ 101\\ 4\\ 241\\ 22\\ 123\\ 8\\ 245\\ 225\\ 127\\ 8\\ 25\\ 255\\ 8\\ 117\\ 8\\ 127\\ 8\\ 25\\ 127\\ 8\\ 127\\ 8\\ 127\\ 8\\ 117\\ 8\\ 117\\ 8\\ 111\\ 4\\ 67\\ 4\end{array}$
 | $\begin{array}{c} \text{hip. 27} \\ 32^{7} \pm \\ 26^{5} \pm \\ 26^{5} \pm \\ 43^{7} \pm \\ 23^{3} \pm \\ 23^{3} \pm \\ 23^{3} \pm \\ 25^{3} \pm \\ 9^{3} \pm \\ 10^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 10^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 11^{3} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^{3} \pm \\ 13^{1} \pm \\ 25^{3} \pm \\ 25^$ | $\begin{array}{c} \text{hip, 23} \\ \text{hip, 23} \\ \hline \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$ |
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 | | | | |
 | | | |
 | | | | |
| 1. Waist heightinches 2. Hip height

 | $\begin{array}{c} 3234\\ 2638\\ 5512\\ 5178\\ 4312\\ 2384\\ 9\\ 25\\ 9914\\ 1056\\ 1014\\ 1056\\ 1014\\ 2412\\ 25\\ 1238\\ 2078\\ 1114\\ 2412\\ 2078\\ 2078\\ 1128\\ 2078\\ 1114\\ 678\\ 25\\ 1114\\ 678\\ 778\end{array}$
 | hip. 27
32^{1}
32^{5}
61
52^{1}
43^{2}
9^{3}
9^{3}
9^{3}
9^{3}
10^{1}
25^{3}
51^{2}
10^{1}
25^{3}
51^{3}
11^{3}
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| 1. Waist height inches 2. Hip height do 3. Weight pounds 4. Stature inches 5. Cervicale height do 6. Tihiale height do 7. Crotch height do 9. Shoulder slope degrees 10. Anterior chest width inches 11. Anterior waist length do 12. Posterior chest width do 13. Posterior waist length do 14. Chest girth at armscye do 15. Seye depth do 16. Posterior hip arc do 17. Maximum chest girth do 18. Anterior chest arc do 19. Waist girth do 21. Neck-hase girth do 21. Neck-hase girth do 22. Shoulder length do 23. Armscye girth do 24. Upper arm girth do 25. Elhow girth do 26. Upper posterior arm length do 27. Total posterior arm length do 27. Total posterior arm length do 20. Waist to hips

 | $\begin{array}{c} 3234\\ 3284\\ 2636\\ 5512\\ 5178\\ 4312\\ 1435\\ 2334\\ 9\\ 25\\ 925\\ 1014\\ 1014\\ 1114\\ 2412\\ 2412\\ 225\\ 1238\\ 245\\ 225\\ 1278\\ 207\\ 82\\ 1112\\ 82\\ 245\\ 207\\ 82\\ 1038\\ 6\\ 6384\\ 1414\\ 1018\\ 207\\ 207\\ 2215\\ 6\\ 6384\\ 1038\\ 2215\\
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		\mathbf{B}_7	C_7	D_7
	Item No. and measurement	Height, 54 ¹ / ₂ ; hip, 26 ¹ / ₂	Height, 54½; hip, 28	Height, 54½; hip, 30
1	Waist height inches	241/	245/	247/
$\hat{2}$.	Hip heightdo	28	28	281/4
3.	Weight pounds inches	63	69	771/2
5.	Cervicale height	4578	46	54% 461/
6.	Tihiale heightdo	151/8	$15\frac{1}{4}$	1514
- 7.	Bitrochapteric diameter do	251/8	$25\frac{1}{8}$	25
9.	Shoulder slopedegrees	25	25	25
10.	Anterior chest widthinches	95/8	978	$10\frac{1}{4}$
11.12.	Posterior chest width do	10 %2	10%	10%
13.	Postcrior waist lengthdo	113/4	1178	117/8
14.	Chest girth at armscyedo	25%	261/2 53/	277/8
16.	Posterior hip arcdo	131/8	14	15
17.	Maximum chest girthdo	255/8	261/2	271/8
18. 19.	Waist girth do	13½ 211/2	14/8	14 1/8 94
20.	Hip girthdo	265/8	281/4	301/8
21.	Neck-hase girth do	121_{4}	123 8	123/4
23.	Armscye girth do	1134	121/4	123/
24.	Upper-arm girthdo	714	734	81/2
25.	Upper posterior arm length do	11	8½ 111%	1114
27.	Total posterior arm lengthdo	193/8	191/2	195/8
28.	Trunk linedo	61/4	$6\frac{1}{4}$	61/8
30.	Thigh girth	151%	163/8	1734
31.	Maximum calf girthdo	1014	1034	113/8
32.	Knce girth do	101/8	11% 225/	12 235%
34.	Anterior crotch lengthdo	1078	111/51	115/8
35.	Extreme hend do	231/4	233/1	241/4
37.	Percentage ¹ percent	29	40~2	18
		Bs	C ₈	D,
	item No. and measurement	B ₈ Height, 57; hip, 28	C ₈ Height, 57: hip, 30	D ₈ Height, 57; hip, 32
	item No. and measurement Waist heightinches	B ₈ Height, 57; hip, 28	C ₈ Height, 57; hip.30	D ₈ Height, 57; hip, 32
1.	item No. and measurement Waist height	B ₈ Height, 57; hip, 28 36 ¹ / ₄ 29 ³ / ₈	C ₈ Height, 57: hip.30	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈
1. 2. 3. 4.	item No. and measurement Waist heightinches Hip heightdo Weightpounds. Statureinches	B ₈ Height, 57; hip, 28 36 ¹ / ₄ 29 ³ / ₈ 71 56 ³ / ₄	C ₈ Height, 57: hip, 30 36_{-8}^{-8} 29_{-8}^{-8} 78 56_{-5}^{-5}	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57
1. 2. 3. 4. 5.	item No. and measurement Waist height	B ₈ Height, 57; hip, 28 36 ¹ / ₄ 29 ³ / ₈ 71 56 ³ / ₄ 48	$\begin{array}{c} C_8 \\ \hline Height, \\ 57; \\ hip, 30 \\ \hline 36_{-8}^{3} \\ 29_{-8}^{3} \\ 78 \\ -78 \\ -56_{-8}^{3} \\ 48_{-4}^{3} \\ 48_{-4}^{3} \\ \end{array}$	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57 48 ¹ / ₂
1.2.3.4.5.6.7	item No. and measurement Waist heightinches Hip heightdo Weightpounds. Statureinches Cervicale heightdo Tibiale heightdo	$\begin{array}{c} B_8 \\ \hline Height, \\ 57; \\ hip, 28 \\ \hline \\ 361_4 \\ 293_8 \\ 71 \\ 563_4 \\ 48 \\ 157_8 \\ 961_4 \\ \end{array}$	$\begin{array}{c} C_8 \\ \hline Height, \\ 57; \\ hip, 30 \\ \hline 36^3 \$ \\ 29^3 \$ \\ 75 \\ 567 \$ \\ 48^1 4 \\ 16 \\ 261 \\ \end{array}$	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57 48 ¹ / ₂ 16
1. 2. 3. 4. 5. 6. 7. 8.	item No. and measurement Waist heightinches Hip heightdo. Weightpounds Statureinches Cervicale heightdo. Tibiale heightdo. Crotch heightdo. Bitrochanteric diameterdo.	$\begin{array}{r} B_8 \\ \hline Height, 57; \\ 57; \\ hip, 28 \\ \hline \\ 36lambda{}^2 \\ 293 \\ 8 \\ 71 \\ 563 \\ 48 \\ 157 \\ 8 \\ 261 \\ 48 \\ 157 \\ 8 \\ 10 \\ \end{array}$	Cs Height, 57; hip. 30 363 & 293 & 78 567 & 483 & 483 & 16 261 & 10 & 2	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57 48 ¹ / ₂ 16 26 11 ¹ / ₅
1. 2. 3. 4. 5. 6. 7. 8. 9.	item No. and measurement Waist heightinches Hip heightdo. Weightpounds Statureinches. Cervicale heightdo. Tibiale heightdo. Crotch heightdo. Bitrochanteric diameterdo. Shoulder slopeidtinches.	B ₈ Height, 57; hip, 28 36 ¹ / ₄ 29 ³ / ₈ 71 56 ³ / ₄ 48 15 ⁷ / ₅ 26 ¹ / ₄ 10 25	Cs Height, 57; hip, 30 363 & 78 & 567 & 4814 16 2614 1012 25 7017	D ₈ Height, 57; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57 48 ¹ / ₂ 16 26 11 ¹ / ₈ 25
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	item No. and measurement Waist heightinches Hip heightdo Weightpounds Statureinches Cervicale heightdo. Tibiale heightdo. Crotch heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Anterior chest widthinches. Anterior waist lengthdo.	B ₈ Height, 57; hip, 28 36 ¹ / ₄ 29 ³ / ₈ 71 56 ³ / ₄ 48 15 ⁷ / ₈ 26 ¹ / ₄ 10 25 10 10 ⁷ / ₈	$\begin{array}{c} C_8 \\ \hline Height, \\ 57; \\ hip, 30 \\ \hline & 363 \frac{4}{5} \\ 293 \frac{5}{5} \\ 78 \\ 567 \\ 8 \\ 481 \frac{4}{4} \\ 161 \frac{2}{2} \\ 261 \frac{4}{5} \\ 101 \frac{1}{2} \\ 25 \\ 101 \frac{4}{4} \\ 11 \\ 11 \end{array}$	D ₈ Height, 55; hip, 32 36 ¹ / ₂ 29 ³ / ₈ 87 ¹ / ₂ 57 ¹ / ₂ 57 ¹ / ₂ 16 ¹ / ₆ 26 11 ¹ / ₈ 25 ⁵ / ₁₀₅ / ₈ 11 ¹ / ₈
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12. \end{array}$	item No. and measurement Waist heightinches Hip heightdo. Weightpounds Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Anterior chest widthinches Anterior chest widthdo.	$\begin{array}{c} & B_8 \\ \hline \\ Height, \\ 57; \\ hip, 28 \\ \hline \\ 36!4 \\ 293 \\ 8 \\ 71 \\ 563 \\ 48 \\ 157 \\ 563 \\ 48 \\ 157 \\ 526! \\ 4 \\ 157 \\ 526! \\ 4 \\ 157 \\ 526! \\ 4 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 4 \\ 112 \\ 25 \\ 10 \\ 107 \\ 112 \\ 25 \\ 10 \\ 107 \\ 112 \\ 25 \\ 10 \\ 107 \\ 112 \\ 10 \\ 107 \\ $	$\begin{array}{c} C_8 \\ \\ \text{Height,} \\ 57; \\ \text{hip, 30} \\ \\ \hline 36^{3} \frac{8}{5} \\ 75 \\ 567 \\ 8 \\ 48^{1} 4 \\ 16 \\ 261 \\ 4 \\ 10^{1} 2 \\ 25 \\ 10^{1} 4 \\ 111 \\ 115 \\ 8 \end{array}$	$\begin{array}{c} D_8 \\ Height, \\ 57; \\ hip, 32 \\ \hline 36^{1/2} \\ 29^{3} \\ 88^{71/2} \\ 577 \\ 48^{1/2} \\ 26 \\ 111^{1/6} \\ 25 \\ 105 \\ 11^{1/6} \\ 11^{1/6} \\ 11^{1/6} \end{array}$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14 \end{array}$	item No. and measurement Waist heightinches. Hip heightdo Weightpounds Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior chest widthinches Anterior chest widthdo. Posterior chest lengthdo. Posterior waist lengthdo.	$\begin{array}{c} & B_8 \\ \hline Height, \\ 57; \\ hip, 28 \\ \hline & 36!4 \\ 293 \\ 8 \\ 71 \\ 5684 \\ 48 \\ 1578 \\ 26!4 \\ 10 \\ 25 \\ 10^{7}8 \\ 10^{1}22 \\ 12!4 \\ 26^{3}4 \\ \end{array}$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip. 30 \\ \hline 363 \\ 293 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 7$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 361/2 \\ 2938 \\ 871/2 \\ 450 \\ 16 \\ 26 \\ 111/8 \\ 25 \\ 1058 \\ 111/8 \\ 111/8 \\ 121/2 \\ 201/2 \\ 201/2 \\ 111/8 \\ 111/8 \\ 121/2 \\ 201/2 $
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15. \end{array}$	item No. and measurement Waist heightinches Hip heightdo. Weightpounds Statureinches Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Crotch heightdo. Shoulder slopedegrees. Anterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Chest girth at armscyedo. Scye depthdo.	$\begin{array}{c} & B_8 \\ \hline Height, \\ 57; \\ hip, 28 \\ \hline 293 \\ 8 \\ 71 \\ 568 \\ 48 \\ 48 \\ 157 \\ 8 \\ 261 \\ 4 \\ 10 \\ 25 \\ 10 \\ 102 \\ 101 \\ 8 \\ 111 \\ 2 \\ 121 \\ 4 \\ 268 \\ 4 \\ 57 \\ 8 \\ 57 \\ 8 \\ \end{array}$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 298 & 8\\ 298 & 567 & 8\\ 567 & 8\\ 567 & 8\\ 567 & 8\\ 4814 \\ 10^{1/2} & 25\\ 10^{1/2} & 25\\ 10^{1/2} & 10^{1/2} \\ 25 & 10^{1/2} & 8\\ 111 & 115 & 8\\ 123 & 8\\ 2778 & 6 \\ \end{array}$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 2938 \\ 874 \\ 489 \\ 2038 \\ 874 \\ 489 \\ 2038 \\ 1058 \\ 111 \\ 2058 \\ 111 \\ 2034 \\ 122 \\ 2034 \\ 81 \\ 84 \\ 122 \\ 2034 \\ 81 \\ 84 \\ 122 \\ 2034 \\ 81 \\ 81 \\ 81 \\ 81 \\ 122 \\ 2034 \\ 81 \\ 81 \\ 81 \\ 122 \\ 2034 \\ 81 \\ 81 \\ 122 \\ 2034 \\ 81 \\ 81 \\ 122 \\ 12$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ \end{array}$	item No. and measurement Waist heightinches Hip heightdo. Weightpounds. Statureinches Cervicale heightdo. Tibiale heightdo. Crotch heightdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior chest widthdo. Posterior chest widthdo. Posterior waist lengthdo. Chest girth at armscyedo. Chest girth at armscyedo. Posterior hip arcdo.	$\begin{array}{c} B_8 \\ \hline Height, 57; \\ hip, 28 \\ \hline & 293 \\ 8 \\ 71 \\ 563 \\ 48 \\ 157 \\ 8 \\ 263 \\ 48 \\ 157 \\ 8 \\ 263 \\ 4 \\ 10 \\ 10 \\ 25 \\ 10 \\ 107 \\ 263 \\ 4 \\ 10 \\ 25 \\ 112 \\ 4 \\ 263 \\ 4 \\ 57 \\ 8 \\ 57 \\ 8 \\ 95 \\ 965 \\ \end{array}$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & $29^{3} $$$$$$$$$$$$567, $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	$\begin{array}{c} D_8 \\ Height, & 57; \\ hip, 32 \\ \hline & 36!_2 \\ 2938 \\ 8752 \\ 2938 \\ 8754 \\ 2038 \\ 8754 \\ 2038 \\ 1058 \\ $
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18. \end{array}$	item No. and measurement Waist heightinches Hip heightdo Weightpounds Statureinches. Cervicale heightdo Tibiale heightdo Crotch heightdo Bitrochanteric diameterdo Shoulder slopedegrees Anterior waist lengthdo Posterior waist lengthdo Posterior waist lengthdo Posterior waist lengthdo Ceve depthdo Seve depthdo Posterior hip arcdo Maximum chest girthdo Maximum chest girthdo	$\begin{array}{r} & B_8 \\ \hline Height, 57; \\ hip, 28 \\ \hline 293 \\ 293 \\ 293 \\ 71 \\ 568 \\ 48 \\ 157 \\ 261 \\ 48 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 25 \\ 10 \\ 10 \\ 268 \\ 4 \\ 57 \\ 6 \\ 137 \\ 6 \\ 137 \\ 6 \\ 144 \\ 5 \\ 144 \\ 144 \\ 5 \\ 144 \\$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 36^3 \times 29^{3} \times 58 \\ 567 \times 348^{1} \times 48^{1} \times 416^{1} \\ 16^{1} \times 26^{1} \times 48^{1} \times 118^{1} \\ 10^{1} \times 25 \\ 10^{1} \times 25 \\ 10^{1} \times 27^{1} \times 86^{1} \\ 11^{2} \times 86^{1} \times 277^{1} \times 86^{1} \\ 14^{3} \times 48^{1} \\ 14$	$\begin{array}{c} D_8 \\ Height, & 57; \\ hip, 32 \\ \hline & 361/2 \\ 2938 \\ 877/2 \\ 577 \\ 577 \\ 66 \\ 111/8 \\ 205 \\ 105/8 \\ 111/8 \\ 122 \\ 124 \\ 2291/4 \\ 61/8 \\ 153/4 \\ 2291/4 \\ 153/4 \\ 2291/8 \\ 153/4 \\ 153/4 \\ 293/8 \\ 153/4 \\ 153/4 \\ 293/8 \\ 153/4 \\ 153/4 \\ 203/8 \\ 153/4 \\$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 19. \end{array}$	item No. and measurement Waist heightinches Hip heightdo. Weightpounds Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Anterior chest widthdo. Posterior waist lengthdo. Posterior waist lengthdo. Posterior waist lengthdo. Scye depthdo. Scye depthdo. Scye depthdo. Maximum chest girthdo. Anterior chest widthdo. Maximum chest girthdo.	$\begin{array}{c} B_8 \\ \hline \\ Height, \\ 57; \\ hip, 28 \\ \hline \\ 36!4 \\ 293_{\cdot 8} \\ 71_{\cdot 5} \\ 563_{\cdot 4} \\ 48 \\ 157_{\cdot 5} \\ 263_{\cdot 4} \\ 10 \\ 107_{\cdot 6} \\ 111_{\cdot 2} \\ 225 \\ 10 \\ 107_{\cdot 6} \\ 111_{\cdot 2} \\ 263_{\cdot 4} \\ 137_{\cdot 6} \\ 225 \\ 141_{\cdot 5} \\ 225_{\cdot 6} \\ 141_{\cdot 5} \\ 222_{\cdot 6} \\ 8 \\ 141_{\cdot 5} \\ 8 \\ 141_{\cdot$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 293 \\ 75 & 567 \\ 8483 \\ 483 \\ 463 \\ 463 \\ 463 \\ 463 \\ 1012 \\ 255 \\ 1014 \\ 113 \\ 8275 \\ 66 \\ 143 \\ 4277 \\ 86 \\ 143 \\ 4275 \\ 143 \\ 4273 \\ 232 \\ 8 \end{array}$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ \hline & 361/2 \\ 2998 \\ 8878/2 \\ 2998 \\ 878/2 \\ 1058 \\$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 19.\\ 20.\\ \end{array}$	item No. and measurement Waist heightinches. Hip heightdo Weightpounds Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Shoulder slopedegrees. Anterior chest widthinches. Anterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Posterior thest lengthdo. Chest girth at armscyedo. Scye depthdo. Ray do. Posterior hip arcdo. Maximum chest girthdo. Anterior chest arcdo. Maximum chest girthdo. Anterior chest arcdo. Maist girthdo.	$\begin{array}{c} B_8 \\ \hline \\ Height, \\ 57; \\ hip, 28 \\ \hline \\ 36!4 \\ 293 \\ 8 \\ 71 \\ 5684 \\ 48 \\ 157 \\ 8 \\ 203 \\ 8 \\ 201 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 25 \\ 26 \\ 34 \\ 26 \\ 34 \\ 26 \\ 34 \\ 26 \\ 34 \\ 22 \\ 8 \\ 28 \\ 5 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip. 30 \\ \hline 363 & 293 \\ 293 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 7$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ \hline 361/2 \\ 2938 \\ 871/2 \\ 2938 \\ 871/2 \\ 160 \\ 111/8 \\ 160 \\ 111/8 \\ 120 \\ 121/2 \\ 293/4 \\ 111/8 \\$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 19.\\ 20.\\ 21.\\ 22. \end{array}$	item No. and measurement Waist heightinches. Hip heightdo. Weightpounds. Statureinches. Cervicale heightdo. Tibiale heightdo. Crotch heightdo. Shoulder slopedegrees. Anterior chest widthinches Anterior chest widthdo. Posterior chest widthdo. Posterior thip arcdo. Croter hip arcdo. Anterior chest airthdo. Posterior hip arcdo. Maximum chest girthdo. Maximum chest girthdo. Neek-hase girthdo. Neek-hase girthdo.	$\begin{array}{c} B_8 \\ \hline \\ Height, \\ 57; \\ hip, 28 \\ \hline \\ 293 \\ 8 \\ 71 \\ 568 \\ 48 \\ 157 \\ 8 \\ 157 \\ 8 \\ 107 \\ 25 \\ 107 \\ 101 \\ 8 \\ 107 \\ 101 \\ 121 \\ 4 \\ 268 \\ 107 \\ 121 \\ 4 \\ 57 \\ 6 \\ 121 \\ 8 \\ 228 \\ 6 \\ 265 \\ 8 \\ 141 \\ 6 \\ 228 \\ 8 \\ 28 \\ 8 \\ 37 \\ 8 \\ 8 \\ 37 \\ 8 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8 \\ 37 \\ 8$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 298 & 8 \\ 298 & 8 \\ 58 & 587 & 8 \\ 587 & 8 & 8484 \\ 10^{12} & 25 \\ 10^{12} & 25 \\ 10^{12} & 25 \\ 10^{12} & 25 \\ 10^{12} & 25 \\ 10^{12} & 277 & 8 \\ 113 & 8 & 277 & 8 \\ 123 & 8 & 297 & 8 \\ 143 & 4 & 238 & 8 \\ 297 & 8 & 297 & 8 \\ 122 & 8 & 378 \\ 378 & 378 \\ \end{array}$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 2938 \\ 574 \\ 2938 \\ 574 \\ 454 \\ 26 \\ 111 \\ 26 \\ 111 \\ 26 \\ 111 \\ 203 \\ 121 \\ 203 \\ 121 \\ 203 \\ 121 \\ 203 \\ 111 \\ 313 \\ 121 \\ 203 \\ 111 \\ 313 \\ 111 \\ 313 \\ 131 \\ $
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 112.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 19.\\ 201.\\ 222.\\ 23.\\ \end{array}$	item No. and measurement Waist heightinches Hip heightdo Weightpounds. Statureinches Cervicale heightdo Tibiale heightdo Crotech heightdo Shoulder slopedegrees. Anterior chest widthdo Posterior chest widthdo Posterior waist lengthdo Crotest girth at armscycedo Serve depthdo Posterior hip arcdo Maximum chest girthdo Maximum chest girthdo Maximum chest girthdo Maximum chest girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo Maximum chest girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo Neck-hase girthdo	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 36!_4 \\ 293 \\ 71 \\ 563 \\ 48 \\ 157 \\ 563 \\ 48 \\ 157 \\ 563 \\ 48 \\ 157 \\ 563 \\ 44 \\ 107 \\ 125 \\ 100 \\ 107 \\ 25 \\ 100 \\ 107 \\ 25 \\ 100 \\ 107 \\ 25 \\ 100 \\ 107 \\ 25 \\ 111 \\ 226 \\ 107 \\ 107 \\ 228 \\ 68 \\ 28 \\ 128 \\ 68 \\ 28 \\ 128 \\ 68 \\ 28 \\ 128 \\ 68 \\ 28 \\ 128 \\ 68 \\ 28 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 88 \\ 128 \\ 128 \\ 88 \\ 128 \\ 128 \\ 88 \\ 128 \\ 128 \\ 88 \\ 128 \\$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 293 & 587 & 5$	$\begin{array}{c} D_8 \\ Height, & 57; \\ hip, 32 \\ \hline & 361/2 \\ 293 \\ 8871/2 \\ 293 \\ 8774 \\ 481/2 \\ 105$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 11.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 20.\\ 223.\\ 24.\\ 25.\\ \end{array}$	item No. and measurement Waist heightinches Hip heightdo. Weightpounds. Statureinches Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Crotch heightdo. Shoulder slopedegrees. Anterior chest widthdo. Posterior chest widthdo. Posterior waist lengthdo. Posterior waist lengthdo. Chest girth at armscycedo. Seve depthdo. Maximum chest girthdo. Maximum chest girthdo. Maximum chest girthdo. Maximum chest girthdo. Maxig girthdo. Neck-hase girthdo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Ellow girthdo. Ellow girthdo.	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 293 \\ 71 \\ 563 \\ 48 \\ 157 \\ 8 \\ 157 \\ 8 \\ 265 \\ 111 \\ 25 \\ 107 \\ 107 \\ 25 \\ 111 \\ 263 \\ 4 \\ 107 \\ 121 \\ 4 \\ 263 \\ 4 \\ 57 \\ 8 \\ 124 \\ 265 \\ 8 \\ 283 \\ 6 \\ 283 \\ 8 \\ 5 \\ 8 \\ 8 \\ 5 \\ 8 \\ 8 \\ 5 \\ 8 \\ 8$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline & 363 & 8 \\ 293 & 5 \\ 87 & 8 \\ 78 & 78 \\ 87 & 8 \\ 16 \\ 2614 \\ 1054 \\ 25 \\ 25 \\ 1054 \\ 115 \\ 812 \\ 25 \\ 277 \\ 81 \\ 235 \\ 277 \\ 84 \\ 235 \\ 1454 \\ 235 \\ 1454 \\ 235 \\ 37 \\ 81 \\ 37 \\ 81 \\ 9 \\ 9 \end{array}$	$\begin{array}{c} D_8 \\ Height, & 57; \\ hip, 32 \\ \hline & 36!_2 \\ 2938 \\ 8757 \\ 48!_2 \\ 2938 \\ 8757 \\ 48!_2 \\ 2938 \\ 1058 $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.22.23.24.22.22.22.22.22.22.22.22.22.22.22.22.$	item No. and measurement Waist heightinches Hip heightdo. Weightdo. Uwight	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 3614 \\ 293 \\ 713 \\ 563 \\ 48 \\ 157 \\ 563 \\ 48 \\ 157 \\ 563 \\ 48 \\ 157 \\ 5263 \\ 48 \\ 157 \\ 5263 \\ 44 \\ 10 \\ 107 \\ 48 \\ 107 \\ 223 \\ 68 \\ 1137 \\ 86 \\ 225 \\ 1137 \\ 86 \\ 225 \\ 123 \\ 68 \\ 1137 \\ 87 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 123 \\ 68 \\ 113 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 8$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 293 \\ 75 & 567 \\ 8483 \\ 483 \\ 46 \\ 261 \\ 10^{12} \\ 252 \\ 101 \\ 11^{3} \\ 8275 \\ 66 \\ 143 \\ 2775 \\ 66 \\ 143 \\ 2775 \\ 143 \\ 232 \\ 8297 \\ 127 \\ 837 \\ 81 \\ 232 \\ 81 \\ 232 \\ 81 \\ 232 \\ 81 \\ 232 \\ 81 \\ 232 \\ 81 \\ 232 \\ 81 \\ 37 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 81 \\ 91 \\ 12 \\ 81 \\ 81 \\ 81 \\ 81 \\ 81 \\ 81 \\ 8$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip. 32 \\ 361/2 \\ 293/8 \\ 877/2 \\ 293/8 \\ 877/2 \\ 293/8 \\ 105/8 \\ 1$
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.1617.18.19221.223.4.225.225.225.225.225.225.225.225.225.2$	item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Uweightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Shoulder slopedegrees. Anterior chest widthinches Anterior chest widthinches Anterior chest widthinches Anterior chest widthdo. Posterior chest widthdo. Posterior chest widthdo. Chest girth at armscydo. Steve depthdo. Anterior chest widthdo. Posterior hip arcdo. Posterior hip arcdo. Maximum chest girthdo. Anterior chest arcdo. Mizi girthdo. Hip girthdo. Shoulder lengthdo. Armscye girthdo. Lipper-arm girthdo. Elhow girthdo. Total posterior arm lengthdo. Trunk linedo.	$\begin{array}{c} B_8 \\ \hline \\ Height, \\ 57; \\ hip, 28 \\ \hline \\ 293 \\ 8 \\ 71 \\ 563 \\ 48 \\ 157 \\ 8 \\ 203 \\ 8 \\ 71 \\ 203 \\ 8 \\ 71 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 10 \\ 25 \\ 10 \\ 10 \\ 25 \\ 10 \\ 10 \\ 25 \\ 10 \\ 10 \\ 25 \\ 10 \\ 10 \\ 25 \\ 10 \\ 26 \\ 37 \\ 8 \\ 10 \\ 10 \\ 28 \\ 26 \\ 37 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 10$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip. 30 \\ \hline 363 \times 29^{3/8} \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ $	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ \hline 361/2 \\ 2938 \\ 871/2 \\ 2938 \\ 871/2 \\ 16 \\ 2038 \\ 111/8 \\ 121/2 \\ 121/2 \\ 2938 \\ 16 \\ 111/8 \\ 111/8 \\ 111/8 \\ 111/8 \\ 111/8 \\ 113/2 \\ 213/2 \\ 113/2 \\ 113/2 \\ 213/2 \\ 113/2 \\ 113/2 \\ 213/2 \\ 1$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 112.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 8.\\ 19.\\ 20.\\ 22.\\ 23.\\ 24.\\ 22.\\ 22.\\ 22.\\ 22.\\ 22.\\ 22.\\ 22$	item No. and measurement Waist heightinches. Hip heightdo. Weightpounds. Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior chest widthinches Anterior chest widthinches Anterior chest widthdo. Posterior vaist lengthdo. Posterior thest widthdo. Chest girth at armscyedo. Posterior hip arcdo. Maximum chest girthdo. Neek-hase girthdo. Maximum chest girthdo. Maximum c	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 36 J_4 \\ 29 J_8 \\ 71 \\ 56 J_4 \\ 48 \\ 15 J_8 \\ 29 J_8 \\ 71 \\ 56 J_4 \\ 10 \\ 25 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 26 J_4 \\ 10 \\ 25 \\ 10 \\ 37 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 8 \\ 10 \\ 10$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 2998 \\ 874 \\ 2298 \\ 874 \\ 489 \\ 2098 \\ 111 \\ 229 \\ 105 \\ 26 \\ 111 \\ 26 \\ 111 \\ 26 \\ 111 \\ 26 \\ 111 \\ 26 \\ 111 \\ 201 \\ 8 \\ 291 \\ 113 \\ 4 \\ 133 \\ 8 \\ 8 \\ 57 \\ 8 \\ 113 \\ 4 \\ 133 \\ 8 \\ 8 \\ 73 \\ 73$
$\begin{array}{c} 1.\\ 2.\\ 3.\\ 4.\\ 5.\\ 6.\\ 7.\\ 8.\\ 9.\\ 10.\\ 112.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 8.\\ 19.\\ 20.\\ 22.\\ 23.\\ 24.\\ 25.\\ 26.\\ 27.\\ 28.\\ 30.\\ 30.\\ 30.\\ 30.\\ 30.\\ 30.\\ 30.\\ 30$	item No. and measurement Hip heightinches Hip height	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 293 \\ 71 \\ 293 \\ 71 \\ 563 \\ 48 \\ 48 \\ 157 \\ 261 \\ 48 \\ 157 \\ 261 \\ 41 \\ 101 \\ 25 \\ 101 \\ 121 \\ 42 \\ 268 \\ 111 \\ 228 \\ 61$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 298 & 8 \\ 298 & 8 \\ 587 & 8 \\ 483 & 483 \\ 1014 & 25 \\ 1024 & 1128 & 8 \\ 1024 & 1128 & 8 \\ 1034 & 1138 & 2778 & 8 \\ 1138 & 1238 & 2778 & 8 \\ 1434 & 2398 & 1278 & 8 \\ 1434 & 1278 & 1278 & 1278 & 1278 & 1288 \\ 1434 & 1278 & 1278 & 1278 & 1288 \\ 1434 & 1278 & 1278 & 1278 & 1288 & 1288 \\ 1434 & 1278 & 1278 & 1288 & 1288 & 1288 & 1288 & 1288 \\ 1434 & 1278 & 12888 & 1288 & 1288 & 1288 & 1288 & 1288 & 1288 & 1288 & $	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 2938 \\ 874 \\ 489 \\ 2938 \\ 874 \\ 489 \\ 111 \\ 223 \\ 489 \\ 111 \\ 223 \\ 121 \\ 223 \\ 121 \\ 223 \\ 121 \\ 223 \\ 121 \\ 223 \\ 121 \\ 223 \\ 133 \\ 83 \\ 83 \\ 83 \\ 83 \\ 83 \\ 83 \\ $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 10.11.122.3.24.5.6.7.8.9.\\ 10.11.122.3.24.5.2.23.24.5.2.23.2.23.2.23.2.23.$	item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Statureinches. Cervicale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Bitrochanteric diameterdo. Shoulder slopedegrees. Anterior waist lengthdo. Posterior waist lengthdo. Chest girth at armscyedo. Scye depthdo. Scye depthdo. Scye depthdo. Hip girthdo. Hip girthdo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Hip girthdo. Shoulder lengthdo. Shoulder lengthdo. There girthdo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Shoulder lengthdo. Thush girthdo. Shoulder lengthdo. Shoulder lengthdo. Thush girthdo. Shoulder lengthdo. Should	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 293 \\ 71 \\ 563 \\ 48 \\ 157 \\ 88 \\ 157 \\ 88 \\ 157 \\ 88 \\ 157 \\ 88 \\ 100 \\ 107 \\ 225 \\ 111 \\ 226 \\ 111 \\ 226 \\ 124 \\ 265 \\ 124 \\ 228 \\ 8 \\ 228 \\ 8 \\ 228 \\ 8 \\ 228 \\ 8 \\ $	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip, 30 \\ \hline 363 & 293 & 58 \\ 293 & 58 & 78 \\ 293 & 58 & 78 \\ 293 & 58 & 78 \\ 105 & 293 & 58 \\ 293 & 58 & 78 \\ 105 & 111 \\ 112 & 58 & 277 & 58 \\ 277 & 58 & 58 \\ 277 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 237 & 58 & 58 \\ 378 & 58 & 58 \\ 3$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip. 32 \\ \hline 361/2 \\ 293/2 \\ 293/2 \\ 16 \\ 26 \\ 111/5 \\ 25 \\ 105/8 \\ 121/2 \\ 121/2 \\ 293/8 \\ 121/2 \\ 131/4 \\ 131/6 \\ 131/4 \\ 131/6 \\ 131/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 133/6 \\ 113/4 \\ 113/4 \\ 113/6 \\ $
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$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 101.112.134.15.16.7.18.19.0.221.223.4.256.227.28.9.331.2.333.345 \end{array}$	item No. and measurement Waist heightinches. Hip heightdo. Weightdo. Weightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Tibiale heightdo. Shoulder slopedegrees. Anterior chest widthinches. Anterior chest widthinches. Anterior chest widthdo. Posterior height at armscydo. Scye depthdo. Chest girthdo. Anterior chest arcdo. Hip girthdo. Hip girthdo. Shoulder lengthdo. Anterior arm lengthdo. Chest girthdo. Topsterior arm lengthdo. Topsterior arm lengthdo. Anterior chest arcdo. Hip girthdo. Topsterior arm lengthdo. Topsterior arm lengthdo. Total posterior arm lengthdo. Thing high girthdo. Thing high girthdo. Thing high girthdo. Thing high do. Thing high high do. Thing high do. Thing high do. Thing high do. Thing high high do. Thing high do. Thin	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 293 \\ 71 \\ 568 \\ 48 \\ 157 \\ 82 \\ 203 \\ 82 \\ 71 \\ 364 \\ 48 \\ 157 \\ 82 \\ 203 \\ 82 \\ 10 \\ 107 \\ 83 \\ 201 \\ 201 \\ 111 \\ 22 \\ 203 \\ 85 \\ 63 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 223 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 61 \\ 222 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 61 \\ 115 \\ 85 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 61 \\ 222 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 8$	$\begin{array}{c} C_8 \\ \hline Height, 57; \\ hip. 30 \\ \hline 363 \times 29^{3/8} \\ 29^{3/8} \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ 78 \\ $	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 361/2 \\ 2938 \\ 871/2 \\ 2938 \\ 871/2 \\ 161 \\ 2038 \\ 111/8 \\ 121/2 \\ 2058 \\ 111/8 \\ 111/8 \\ 121/2 \\ 2058 \\ 131/2 \\ $
$\begin{array}{c} 1.2.3.4.5.6.7.8.9.\\ 10.1.12.13.4.15.1617.8.19221.22.3.24.25.6.23.33.33.33.33.33.33.33.33.33.33.33.33.$	item No. and measurement Waist height	$\begin{array}{c} B_8 \\ \hline \\ Height, 57; \\ hip, 28 \\ \hline \\ 3634 \\ 293 \\ 71 \\ 568 \\ 48 \\ 157 \\ 826 \\ 48 \\ 157 \\ 826 \\ 48 \\ 157 \\ 826 \\ 44 \\ 100 \\ 25 \\ 101 \\ 811 \\ 225 \\ 811 \\ 226 \\ 84 \\ 124 \\ 228 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 85 \\ 8$	$\begin{array}{c} C_8 \\ \hline Height, 577; \\ hip, 30 \\ \hline 363 & 8 \\ 293 & 8 \\ 567 & 8 \\ 567 & 8 \\ 481 \\ 10^{1/2} \\ 25 \\ 10^{1/4} \\ 123 & 6 \\ 277 & 8 \\ 123 & 6 \\ 143 \\ 434 \\ 2277 & 8 \\ 1277 & 8 \\ 1434 \\ 2277 & 8 \\ 1434 \\ 2277 & 8 \\ 1434 \\ 2277 & 8 \\ 1434 \\ 2277 & 8 \\ 1277 & 8 \\ 1434 \\ 2277 & 8 \\ 1275 \\ 8 \\ 205 \\ 8 \\ 113 \\ 8 \\ 205 \\ 8 \\ 113 \\ 113 \\$	$\begin{array}{c} D_8 \\ Height, 57; \\ hip, 32 \\ 36 \\ 12 \\ 29 \\ 8 \\ 87 \\ 29 \\ 8 \\ 87 \\ 48 \\ 29 \\ 8 \\ 87 \\ 48 \\ 29 \\ 8 \\ 8 \\ 74 \\ 20 \\ 11 \\ 8 \\ 26 \\ 11 \\ 12 \\ 20 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 13 \\ 4 \\ 25 \\ 8 \\ 8 \\ 7 \\ 12 \\ 24 \\ 4 \\ 13 \\ 4 \\ 25 \\ 8 \\ 8 \\ 7 \\ 12 \\ 24 \\ 24 \\ 4 \\ 12 \\ 24 \\ 4 \\ 25 \\ 8 \\ 8 \\ 5 \\ 6 \\ 3 \\ 8 \\ 7 \\ 7 \\ 8 \\ 8 \\ 7 \\ 7 \\ 8 \\ 8 \\ 7 \\ 7$

See footnotes at end of table.

TABLE 9 .--- Proposed system of girls' body measurements based on intervals of height and hip measure (symbols, i. e., B_1 , C_1 , D_1 , show corresponding intervals on fig. 4) and designated by approximate height and hip dimensions in inches—Continued

	B ₉	C ₉	D_9	1
ftem No. and measurement	Height, 59; hip, 30	Height, 59½; hip, 32	Height, 59½; hip, 34	Item No. and meas
1. Waist height inches_ 2. Hip height do 3. Weight pounds 4. Stature inches_ 5. Cervicale height do_ 6. Tihiale height do_ 7. Crotch height do_ 8. Bitrochanteric diameter do_ 9. Shoulder slope degrees_ 10. Anterior waist length do_ 12. Posterior chest width inches_ 13. Posterior waist length do_ 14. Chest girth at armscye do_ 15. Scyc depth do_ 16. Posterior hip arc do_ 17. Maximum chest sirth do 18. Anterior chest are do_ 19. Waist girth do 21. Neck-hase girth do 22. Shoulder length do 23. Armscye girth do 24. Upper-arm sirth do 25. Ehhow girth do 26. Upper posterior arm length do 27. Total posterior arm length do 28. Trunk line do 29. Waist to hips do 30. Thigh girth <t< td=""><td>$\begin{array}{c} 3778\\ 3015\\ 811\\ 5914\\ 827\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125$</td><td>$\begin{array}{c} 38\\ 305\%\\ 305\%\\ 501\%\\ 201\%$</td><td>$\begin{array}{c} 38\\ 303 \leqslant\\ 9994 2\\ 5034\\ 161 2\\ 271 3\\ 25\\ 111 3\\ 4\\ 125 \\ 113 4\\ 25\\ 113 4\\ 303 4\\ 65 8\\ 25\\ 313 4\\ 167 8\\ 25\\ 313 4\\ 4^{1} \\ 8\\ 125 8\\ 67 8\\ 77 8\\ 125 8\\ 67 8\\ 125 8\\ 67 8\\ 125 8\\ 26\\ 125 8\\ 26\\ 125 8\\ 26\\ 125 8\\ 26\\ 26 \\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 25 8\\ 26\\ 35 8\\ 2$</td><td> Waist height. Hip height. Weight. Staturc Cervicale height. Thiale height. Tribiale height. Thiale height. Thiale height. Bitrochanteric diamet Shoulder slope. Anterior chest width. Posterior chest width. Posterior chest width. Posterior height at armscy. Sey depth. Posterior height at armscy. Sey edpth. Posterior height at armscy. Sey edpth. Posterior height at armscy. Sey edpth. Posterior height. Neck-hase girth. Hoegham. Anterior chest are Waist girth. Hoegham. Folder length. Armscye girth. Elbow girth. Elbow girth. Total posterior arm le Thigh girth. Maximum calf girth. Maximum calf girth. Kase girth at armsch. Arterior check in a girth. Stotal crotch length. Arterior crotch length. Arterior crotch length. Waist to hips. Total crotch length. Maximum calf girth. Kaster or crotch length. Arterior crotch length. Arterior crotch length. Arterior crotch length. Arterior crotch length. Yented the state and state an</td></t<>	$\begin{array}{c} 3778\\ 3015\\ 811\\ 5914\\ 827\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125$	$\begin{array}{c} 38\\ 305\%\\ 305\%\\ 501\%\\ 201\%$	$\begin{array}{c} 38\\ 303 \leqslant\\ 9994 2\\ 5034\\ 161 2\\ 271 3\\ 25\\ 111 3\\ 4\\ 125 \\ 113 4\\ 25\\ 113 4\\ 303 4\\ 65 8\\ 25\\ 313 4\\ 167 8\\ 25\\ 313 4\\ 4^{1} \\ 8\\ 125 8\\ 67 8\\ 77 8\\ 125 8\\ 67 8\\ 125 8\\ 67 8\\ 125 8\\ 26\\ 125 8\\ 26\\ 125 8\\ 26\\ 125 8\\ 26\\ 26 \\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 26\\ 35 8\\ 25 8\\ 26\\ 35 8\\ 2$	 Waist height. Hip height. Weight. Staturc Cervicale height. Thiale height. Tribiale height. Thiale height. Thiale height. Bitrochanteric diamet Shoulder slope. Anterior chest width. Posterior chest width. Posterior chest width. Posterior height at armscy. Sey depth. Posterior height at armscy. Sey edpth. Posterior height at armscy. Sey edpth. Posterior height at armscy. Sey edpth. Posterior height. Neck-hase girth. Hoegham. Anterior chest are Waist girth. Hoegham. Folder length. Armscye girth. Elbow girth. Elbow girth. Total posterior arm le Thigh girth. Maximum calf girth. Maximum calf girth. Kase girth at armsch. Arterior check in a girth. Stotal crotch length. Arterior crotch length. Arterior crotch length. Waist to hips. Total crotch length. Maximum calf girth. Kaster or crotch length. Arterior crotch length. Arterior crotch length. Arterior crotch length. Arterior crotch length. Yented the state and state an
37. Percentage 1percent	49 ¹ / ₈ 26	30 51 ¹ /8	21	36. Vertical trunk girth 37. Percentage ¹
Item No. and measurement	B_{10} Height, $61\frac{1}{2};$ hip, 32	C ₁₀ Height, 61 ¹ / ₂ . hip, 34	D ₁₀ Height, 62; hip, 36	Item No. and meas
	$\begin{array}{c} 391_4\\ 313_4\\ 921_{22}\\ 611_{22}\\ 521_{22}\\ 171_4\\ 283\\ 291_{22}\\ 11\\ 113_{22}\\ 12\\ 135_{32}\\ 291_{22}\\ 61_{22}\\ 291_{2$	$\begin{array}{c} 3914\\ 3156\\ 02\\ 6156\\ 5258\\ 1776\\ 2814\\ 122\\ 25\\ 122\\ 25\\ 122\\ 25\\ 125\\ 125\\ 837\\ 834\\ 1054\\ 3112\\ 125\\ 337\\ 834\\ 1654\\ 315\\ 1254\\ 135\\ 8337\\ 834\\ 141\\ 141\\ 99\\ 95\\ 8\\ 223\\ 8\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125\\ 125$	$\begin{array}{c} 394_4\\ 314_2\\ 112\\ 613_4\\ 523_4\\ 17\\ 28\\ 24\\ 113_4\\ 125_8\\ 24\\ 113_4\\ 125_8\\ 14\\ 325_8\\ 65_8\\ 175_4\\ 325_4\\ 125_8\\ 353_4\\ 145_8\\ 353_4\\ 145_8\\ 95_8\\ 95_8\\ 95_8\\ 125_8\\ 95_8\\ 225_8\end{array}$	 Waist height. Hip height. Weight. Stature Cervicale height. Tibiale height. Tibiale height. Torotch height. Bitrochanteric diamet Shoulder slope Anterior chest width. Posterior chest width. Posterior chest width. Posterior hip arc. Maximum chest girth. Posterior heigt arc. Matterior elest arc. Waist girth. Neck-hase girth. Shoulder length. Anterior chest arc. How firth. Posterior hip arc. Anterior chest arc. Waist girth. How girth. How girth. How girth. How girth. Hopper arm girth. Upper arm girth. Cupper posterior arm le Total nosterior arm le

B₁₁ C_{11} D_{11} measurement Height, 64; hip, 33½ Height, Height, 64; hip, 35½ 64: hip, 37 $\begin{array}{r} 40^{5} \\ 32^{3} \\ 4 \\ 112^{1} \\ 63^{7} \\ 54^{5} \\ 8 \\ 17^{5} \\ 8 \\ 29^{1} \\ 4 \end{array}$ _inches $rac{40\%}{32\%}_8$ $\begin{array}{c} 403_4\\ 323_4\\ 1231_2\\ 64\\ 173_4\\ 291_6\\ 291_6\\ 291_6\\ 291_6\\ 291_6\\ 291_6\\ 123_4\\ 133_4\\ 143_{331}\\ 241_{2264}\\ 133_4\\ 181_2\\ 261_6\\ 337_{14}\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\ 261_{44}\\ 371_4\\$ _do pounds $\begin{array}{c} 103\\ 633_{4}\\ 541_{2}\\ 173_{4}\\ 295_{8}\\ 12\\ 25\\ 111_{2}\\ 123_{8}\\ 123_{4}\\ 141_{4}\\ 141_{4} \end{array}$ _inches do __do_ iameter. 125/825117/8do degrees dth ngth idth 11^{8} $12^{5}/_{8}$ 13 $14^{3}/_{8}$ _do. do do ngth 14.4 303.4 67.8 161.2 311.4 163.8 243.8 335.8 14mscye do do do girth do do. do 3..... do 141/243/815do $\begin{array}{c} 14 \\ 4^{3}/_{8} \\ 8^{3}/_{4} \\ 9^{5}/_{8} \\ 13^{1}/_{4} \\ 23^{1}/_{8} \\ 7^{1}/_{2} \\ 8^{1}/_{8} \\ 19 \\ 12^{1}/_{4} \\ 12^{7}/_{8} \\ 26^{3}/_{8} \\ 13 \end{array}$ do do $10 \\ 10^{1}/_{4} \\ 13^{3}/_{8}$ do do rm length do $\begin{array}{c}
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 23^{3} \\
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 \end{array}$ m length. do do. do do. do. $\begin{array}{c} 203 \\ 127 \\ 131 \\ 271 \\ 4 \\ 131 \\ 283 \\ 557 \\ 38 \end{array}$ 213413331334281813782875724rth do th. do ength .do $\begin{array}{c}
 28 \\
 54^{1/2} \\
 21
 \end{array}$ _do _do rth. percent C_{12} B_{12} D_{12} measurement Height, 66; hip, 35 Height, 66; hip, 36½ Height, 66; hip, 38½ $\begin{array}{r} 421_8\\ 34\\ 1221_2\\ 661_8\\ 565_8\\ 1838\end{array}$ inches 421/ $421/_{4}$ ____do____ 34 134 $66^{1/8}$ $56^{3/4}$ $18^{3/8}$ inches do. do. 30^{1}_{4} 13^{1}_{2} 24^{1}_{2} 12^{1}_{2} 13^{1}_{8} do_ _do_ $\begin{array}{c} 30^{3} \\ 8 \\ 13 \\ 25 \\ 12^{1} \\ 8 \\ 13 \\ 13^{3} \\ 8 \\ 14^{7} \\ 8 \\ 32^{3} \\ 4 \\ 7^{1} \\ 4 \\ 18 \\ 33^{3} \\ 8 \\ 17^{1} \\ 25^{5} \\ 8 \\ 36^{5} \\ 8 \\ 14^{5} \\ 8 \end{array}$ ameter degrees idth ngth _inches ____do____ idth 135/8 147/8 ngth do. $\begin{array}{c}
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2178 $13^{1}4$ $13^{5}8$ $28^{1}8$ $13^{7}8$ $29^{3}8$ $57^{1}2$ 38do percent ¹ Based on total number of children in the given height interval.

 25°

do.

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Proposed System not Based on Age

The proposed system is based on stature and hip measure and has no relation to age sizes.

Since children 4 to 17 years of age were included, the system applies to children of these ages. However, many 2- and 3-year-olds will undoubtedly be included in the small sizes, and children older than 17 will be included in the large ones. This depends on their height and their hip measure. Similarly some 4- and 5-year-olds will be too small for these sizes, and some 16- and 17year-olds will be too large. In other words, boys who have the height and hip combinations that come within the range of 39½ inches and 70 inches for height and 19¼ inches and 39 inches for hip measure and girls who have the height and hip combinations which come within the range of 39½ inches and 67¾ inches for height and 19¾ inches and 40 inches for hip measure will be included regardless of their age. Those who are shorter or taller or who have smaller or larger hips than are represented in these ranges are not considered in this scheme.

APPENDIX

Measurements and Methods of Taking Them

From the technical report submitted by Eleanor P. Hunt, associate anthropometrist

The measurements listed below are included in the proposed standard system of body measurements.

- 1. Height of waist.
- 2. Height of hips.
- 3. Weight.
- 4. Stature.
- 5. Height of cervicale.
- 6. Height of tibiale.
- 7. Height of crotch.
- 8. Bitrochanteric diameter.
- 9. Slope of shoulder, right.
- 10. Width of chest, front.
- 11. Length of waist, front.
- 12. Width of chest, back.
- 13. Length of waist, back.
- 14. Girth of the chest at the armseye.
- 15. Depth of seye.
- 16. Back are of hips.
- 17. Maximum girth of chest.
- 18. Front are of the chest.
- 19. Girth of waist.
- 20. Girth of the hips. 21. Girth of the neck base.
- 22. Shoulder length, right.
- 23. Girth of the armseye, right.
- 24. Girth of the upper arm, right.25. Girth of the elbow, right.
- 26. Length of right arm, upper segment, back surface.
- 27. Total length of right arm, back.
- 28. Trunk line, right.
- 29. Length from waist to hip, right.
- 30. Maximum girth of the thigh, right.
- 31. Maximum girth of calf, right.
- 32. Girth of the knee at tibiale right.
- 33. Length of crotch, total.
- 34. Length of the crotch, front.
- 35. Extreme bend.
- 36. Trunk girth, vertical.

The instruments used in the study consisted of a calibrated anthropometer and steel tape similar to standard anthropometric instruments, a pair of calipers for making bisections of distances, and an instrument for measuring shoulder slope which was devised in the Bureau. A skin pencil was supplied for placing the landmarks on the body, a steel knitting needle to use as a ruler in establishing needed vertical lines, and a small chain to outline the neck

base. All measurements except weight and shoulder slope were taken in the metric system.

The landmarks described below are placed on the body with a skin pencil and used later as reference points for the measurements. They are grouped here in the follow-ing order: Neck, trunk, arm. hip, and leg, although in the study, a different order was used which permitted greater speed in the routine measuring.

Placing the Landmarks

The neck base.—A fine-gage, flexible-link chain is looped around the neck so that it touches the upper border of the medial ends of the clavicles (fig. 5) and rests on the cervicale (fig. 6). While the chain is in place its position is marked in the center front and over the trapezius muscle on the right and left side. A short vertical line intersecting the neck base is drawn at the center front. A cross is placed at the cervicale on the prominence of the spinous process of the seventh cervical vertebra. This proninence is found more readily when the head is forward, but the landmark is made when the skin is in normal position and the head erect.

The armseves.—The position of the seam of a set-in sleeve is marked on the right and left arms by the use of four landmarks. The determining points are the shoulder, the armseye back and front, and the underarm midpoint. The procedure of locating the landmarks is identical for the right and left sides and will be described for the right side only.

The shoulder point desired is midway between the acromion and the highest point at the lateral end of the clavicle (fig. 6).

In this study the point marked as the acromion is on the side of the acromial process midway between a point in front of the angle of the process and a point at the center of the shoulder, as judged by sighting. The first step is to outline the side of the acromial process. Points are then placed on the ontline at the angle of the process and at the sighted center of the shoulder. A line intersecting the outline of the process is placed midway between these two points, and the intersection marked as the acromion.

This position corresponds very closely to the acromion. as defined anatomically as the most lateral point of the margin of the acromial process. The use of the midpoint between these easily located limits makes it easier to locate the most lateral point of the process. The highest

point at the lateral end of the clavicle is then found and marked. When the acronion and the highest point of the side of the clavicle have thus heen placed, the shoulder point of the armscye is located midway between these points.

The hack and front of the armscye are traced with the aid of a chalked string. The center of the string is placed under the arm when the aru is raised ahout 30° from the trunk. The ends of the string are raised and crossed up over the shoulder point, thus indicating the direction of the armscye at the hack and front. as well as under the arm (figs. 5 and 6). The chalked path of the armscye is marked with the skin pencil in short, thin, sloping lines.



FIGURE 5.—Body landmarks used in taking measurements. Frout view.

These lines are placed on the front and hack of each shoulder and on the top of the right shoulder but not under the arm.

The underarm midpoint is located with reference to the natural folds in the armpit and the total width of the shoulder. The height of the midpoint in the armpit is decided on the basis of the size and position of the folds. The observer sits in front of the subject and observes the formation of the folds on the right and left sides as the arms are raised to about 45° and gradually lowered to meet the trunk. Usually the folds of one armpit are more clearly defined than those of the other. The level of the midpoint is set with respect to the more clearly defined folds, and a corresponding level is marked off in the pit of the arm on the opposite side. A short, thin, slightly curved line out the trunk marks the underarmscye level.

A vertical line indicating half of the total width of the shoulder is drawn through this to give the underarm unidpoint of the trunk. This hisection of the shoulder is made with a small caliper. The upper edge of the shaft of the caliper is held against the trunk at the level of the armscye. The shaft is horizontal, and the jaws are in a vertical position. The jaws touch the shoulder at the back and front without constricting it. The subject's arm is raised to the side at an angle of approximately 90° with as little elevation of the shoulder as possible. With the caliper in this position, the midpoint of the total width is marked with the skin pencil.

The position of the underarm midpoints on the arm as well as on the trunk should take clothing construction into account. The measurer must decide to what height under



FIGURE 6.—Body landmarks used in taking measurements. Back view.

the arm the blouse cau extend without forming an uncomfortable surplus of fahric when the arm is lowered. This depends on the position of the armpit folds on the subject being measured. The highest level considered feasible is the one chosen.

The shoulder line.—This line intersects the neck base and the armscye at the shoulder. It corresponds to the customary shoulder scam of a garment and is located with reference to the trapezius muscle and the acromion. By feeling at the neck base, the horder of the upper fibers of the trapezius which pass forward and downward to become inserted in the acromial end of the clavicle will be found. The intersection of the shoulder line with the neck base is placed at the front border of the trapezius. The other end of the shoulder line is directed by the acromion, although the intersection of the shoulder line is actually with the armscye. A small steel knitting needle may he used to gnide the observer so that the neck base and armscye intersections can readily he placed with respect to the trapezius border and the acromion.

Average waist level.—The waist level used lies at the lower edge of the lowest rih and is found hy feeling the sides of the body in line with the armpit. This waist level corresponds very closely to the natural waist which can he seen when the side profiles of the body are slightly concave. A natural waist in this sense does not often occur among young children, but a waist level hased on the lower edge of the lowest rib found hy feeling at the side of the hody can be used equally well in all age groups. This waist level also provides for the maximum depth of a garment from the waist to the crotch level. In this respect, it is preferable to a waist placed at the crest of the ilium, a level which is readily determined, hut results in a waist of minimum height and in shallow crotch measurements.

To locate the waist, the observer sits in front of the subject and feels the right and left sides simultaneously. using the index fingers to press against the sides in line with the armpits. The hands are held with the palms directed toward the floor. The fingers are extended and together. The thumb side of the middle joint of the index finger is placed against the subject. When the lower edge of the lowest rib is felt on the hack surface of the index finger, the level of the midline of the index finger is taken as the waist level. Without displacing the skin, the level is marked with a point in line with the armpit on the right and left sides. The waist levels of the right and left sides frequently differ. The average height from the floor of the two sides is considered the waist level. The anthropometer is used to find the average height at the center front, centerback, and at the right side of the back. If the difference in height between the right and left sides exceeds 4 millimeters, the points first placed on the sides are corrected to correspond with the average height of waist.

The finished landmarks of the waist are five in number: center back, center front, each side, and the right side of the back. Small crosses composed of two short, straight, thin lines at right angles, similar to those at the neck hase and cervicale are used. The horizontal hranches indicate average height of waist. The intersection at the right side of the back is located hy bisecting the distance measured with the tape between the center back and the center side.

Levels for the measurement of width of chest.—Short, straight, thin lines are used to indicate the levels on the back and chest at which the width of chest hetween the armscyes is measured. On the hack, the landmark is placed in the center on the prominence of the spinous process of the fourth thorasic vertebra. The landmark on the chest is placed at a level midway hetween that of the shoulder point of the armscye and the level of the lowest visible point of the armscye. The latter point is indicated by placing a pencil under the arm so that the hlunt end is visible at the juncture of the arm and trunk.

Level for the measurement of maximum chest girth.— To guide the measurer in placing his tape at the level at which the girth of chest appears to he the greatest, a landmark is placed at this level after observing carefully the outline of the chest. The region of the chest is viewed from one side, and the hack and front profiles of the hody are considered. A preliminary landmark is placed at the level at which it appears that the girth will be the greatest. This may be placed on the back or the front according to convenience. Similarly, preliminary landmarks are placed when the subject is viewed from the opposite side. The average height of the two preliminary landmarks is taken at the level of maximum chest girth. The final landmark may be placed in the center back or. if the front profile has heen used to set preliminary landmarks. it may he more convenient to place the final landmark on the front. On hoys younger than 11 years of age, these landmarks

are not used, and the measurement of maximum girth of chest is omitted. Landmarks and measurements are also omitted on girls younger than 10 years. Among the girls in the older age groups, the level corresponds to the hust measurement.

Elbow, right.—The length of the upper segment of the arm is measured from the armscye-shoulder line intersec-



FIGURE 7.—Body landmark used in taking measurements. Side view.

tion to the elbow. The elbow is marked at the point farthest to the side when the closed fist is rested against the waist with the back of the hand facing the front.

Wrist, right.—The total length of the arm is measured from the armscye-shoulder line intersection over the elbow to the farther (distal) end of the ulna at the wrist (figs. 5 and 7). To locate the end of the ulna, the flat of the thumbnail of the observer is pushed upward against the end of the ulna on the side corresponding to the little finger. A short line is drawn perpendicular to the long axis of the ulna. An intersecting line is placed at right angles to this in the middle of the side of the wrist corresponding to the little finger.

Average hip level.—The level of the hip is placed at the most prominent bony point in the region of the trochanter major. The level is determined independently for the right and left sides. The levels of the two sides usually differ, and the average of the two is taken as the hip level. The preliminary landmarks are corrected to correspond with the average if the difference between the two sides exceeds 1 mm.

The extended iudex and middle fingers of the observer's right hand are used to feel the region of the trochanter. This is done while the observer squats with eyes approximately at the level of the trochanter. The direction of palpation is from below upward. On well-developed, muscular individuals and when excessive fat pads are present, it will take some time to find the proper level. The subject may be asked to bend slightly forward or rotate the femur by turning the toes laterally and hy pivoting on the heel. A rounded region is felt rather than a point. The midpoint of this region is marked with a pre-liminary point to indicate the hip level. The average hip level is marked with a short horizontal line.

A point on this horizontal line corresponding to the location of the side seam of a garment is obtained by sighting hetween the greatest projection of the buttocks and the front projection of the thigh. This is done by the observer squatting at the side of the subject with eyes at the hip level, holding the knitting needle and skin pencil tangent to the buttocks and thigh profiles, respectively, at their most projected parts. The midpoint between these two is determined and marked on the hip-level line. When this point is set, the knitting needle is held vertically and used as a ruler to extend a line from this point to the waist level. The point where it meets the waist level is marked (fig. 7). The crotch center corresponds to the intersection of the

The crotch center corresponds to the intersection of the inside seams of trouser legs with the crotch seams. The subject rests his left foot on a chair while this landmark is placed. The observer squats at the left side of the subject with his eyes at the level of the fold of the left buttock and directly in front of the inner surface of the right thigh. The subject's right foot is placed straight forward. The middle line of the inner surface of the right thigh is sighted and marked with a thin vertical line extending downward from the level of the perineum. If the lower borders of the measuring suit obscure the region, the subject is asked to draw them up by lifting the suit by the waist band. *Knee center at back.*—The height of this landmark is

Knee center at back.—The height of this landmark is determined with reference to the natural creases of the skin at the back of the knee. By flexing the subject's knee, the creases can be clearly seen. The direction of the most pronounced crease is outlined. A vertical intersection is drawn in the middle line of the back region of the knee.

Tibiale, right.—In this study the middle of the "cleft" between the bones that meet at the knee has been used as a guide. The cleft is located by grasping the knee firmly while it is alternately flexed and extended and by moving the index finger or thumb in the region of the cleft with pressure until the margins of the bones are found. The tibiale is marked by a dot as shown in figure 6 at the level of the cleft which corresponds to the highest point which can he felt at the end of the tibia. In practice the midlevel of the cleft gives a close approximation of the tibiale.

Procedure Followed in Taking Measurements

After all the landmarks have been penciled on the body the measurements are taken as described helow.

1. Height of waist.—This measurement is the average height of the preliminary landmarks set at the waist. The subject stands erect facing the observer with fect together. His weight is evenly distributed hetween the two feet and he is cautioned against shifting his weight from one foot to the other and from heels to toes and vice versa. His arms hang loosely at the side. somewhat toward the hack. The observer sits in front of the subject or stands when the height of waist equals or exceeds 1 m. The measurement is taken with the anthropometer, and the leveling platform is used if the floor of the workroom is not level.

2. Height of hips.—This is the average height of the preliminary landmarks placed on the right and left sides in the region of the trochanters and is taken with the anthropometer, the leveling platform being used if the floor of the workroom is not level. The subject stands facing the observer with hands on the hips, feet together, and weight evenly distributed. The observer ordinarily finds it convenient to sit or squat in front of the subject. 3. Weight.—The subject is asked to stand quietly on

3. Weight.—The subject is asked to stand quietly on the center of the platform of the scale with hands on the hips. He is instructed not to shift his body while the reading is made.

4. Stature.—The subject stands on the leveling platform with heels against the wall and together. The shoulders and buttocks just touch the wall. The eyes are directed forward, and the head is erect. The palms of the hands lie on the thigh. The observer stands at the subject's right side. The measurement is taken with the anthropometer, and a perpendicular wallhoard is used when a suitable wall, free of baseboard and paneling, is not available in the workroom.

The anthropometer is held and balanced in a vertical position in the right hand. The left hand locates the top of the head while the right hand slides the moving arm of the anthropometer down to rest there. Sufficient pressure is used to bring the point of the anthropometer to the level of the top of the head.

5. Height of cervicale.—The subject's position is identical with that described for the measurement of stature. except that the subject stands away from the wall toward the outer end of the leveling platform so that the anthropometer can be placed back of him. The observer stands back of the subject and to his left side. The anthropometer is held vertical in the right hand in line with the center back. The straight edge of the brass point piece is directed toward the floor. The point is lowered to the cervicale. The measurement is taken quickly before the child alters his position. The anthropometer is used for this measurement. The leveling platform will be required if the floor of the workroom is not level.

of the workroom is not level. 6. Height of tibiale.—The upper section of the anthropometer is used. If the floor of the workroom is not level, the subject stands on the leveling platform. He places his left foot on a chair which raises the foot ahout to the level of the midregion of the right kneecap. The subject's weight is evenly distributed between the two feet. So far as possible, the main axis of the right leg is perpendicular to the floor. The right foot is directed straight forward. The observer squats at the subject's left side with eyes at the knee level. The upper section of the anthropometer is inverted so that it stands on the fixed arm. The straight edge of the brass point piece is directed toward the floor. The point is raised to the level of the tibiale. The reading is taken at the upper margin of the brass collar of the movable horizontal arm of the anthropometer.

collar of the movable horizontal arm of the anthropometer. 7. Height of crotch.—The upper section of the anthropometer. 8. Height of crotch.—The upper section of the anthropometer leveling platform is used. The subject's position is the same as for the measurement of the height of tibiale. Before the left foot is raised to the chair, the subject is asked to pull up the measuring suit by the waist band in order to hring the garment in snug contact with the perineal floor. The principal transverse axis of the pelvis is approximately horizontal to the floor. The observer squats at the center back of the subject with eyes at the level of the fold of the buttocks.

The anthropometer rests on the fixed arm. The brass point piece is raised in the crotch until its straight edge is at the level of the hase of the left buttock. This level is indicated by placing a pencil under the left buttock, tangent to the buttock at its lowest point and parallel to the floor. The straight edge of the brass point piece is brought to rest on the pencil at this level of the left buttock. Caution is exercised in order not to tip the pencil from its horizontal position, nor exert more than moderate pressure on the under surface of the buttock.

8. Bitrochanteric diameter.—The upper section of the anthropometer is used for this measurement. The subject stands as for the measurement of stature except that he is away from the wall and bands are placed on the hips. The weight is distributed equally on both feet. It is usually convenient for the observer to sit in front of the subject.

The straight edge of the hrass point piece faces the fixed arm of the anthropometer. The shaft and arms of the anthropometer lie in a plane parallel to the floor. The midpoints of the inner surfaces of the arm are placed on the hip landmarks. The anthropometer is closed without pressure on the skin and the reading made at the inner margin of the brass collar of the movable arm of the instrument.

9. Slope of shoulder, right.—The subject stands in the same position as for the measurement of the cervicale, with arms relaxed and hanging at the sides. The observer stands in back of the subject and to his right side. The wooden blade of the protractor is rested on the intersection of the shoulder line and the right armscye. The subject is asked to carry the weight of the instrument on his shoulder without altering the position of the shoulder. The intersection of the shoulder line and the armscye is

The intersection of the shoulder line and the armscye is used as the pivotal point, and the opposite end of the wooden blade of the protractor is lowered to the point where the shoulder line and the neck base intersect. The instrument should rest lightly without depressing the skin. It is balanced easily on the landmark while the left hand is used to steady the instrument and the right thumb and index fingers adjust the spirit level to a horizontal position. If the protractor cannot be brought to rest on the intersection of the shoulder line and the armscye because of the interference of bigher points, the blade is poised on the highest point; but the blade's direction is that of the shoulder line.

10. Width of chest, front.—The subject's position is the same as that taken for the measurement of stature except that he stands away from the wall. The observer is in front of the subject with eyes at the level of the measurement. Sitting or squatting may be necessary when measuring the younger groups.

The observer tells the subject that this measurement and the three following immediately are to be made while be stands in the same position. It is essential that the subject's position corresponds with the standard position for stature and that the position be maintained throughout the set of four measurements. The upper border of the tape is rested at the level of the landmark previously made on the front of the chest. The measurement is made from the line marking the armscye on one side to the outline of the other armscye. The upper border of the tape is held horizontal. It may be necessary to elevate the zero and reading points of the tape in order to bring its upper edge into a horizontal position.

11. Length of waist, front.—The subject's position is identical with that described in the preceding section. The zero point of the tape rests at the landmark made at the neck base. and the reading is made at the average waist level in the center front, previously marked. 12. Width of chest, back.—The subject's position is identical to that taken for the measurement of width of chest, front. The observer is back of the subject, standing, sitting, or squatting so that his eyes are at the level of the measurement. The upper border of the tape rests at the level of the landmark made on the spinous process of the fourth thoracic vertebra and is made to lie in a horizontal plane by elevating the zero and reading points of the tape as needed. The uneasurement is taken without constriction and is made from the line marking the armscye on one side to the outline of the other armscye.

13. Length of waist, back.—The position of the subject is identical to that described for the measurement of the width of chest, front. The observer is back of the subject and to the left side. The zero point of the tape is placed at the landmark at cervicale. The tape follows the outline of the center back without constriction, and the reading is made at the landmark at the average waist level in the center back.

14. Girth of the chest at the armscye.—The subject's position is his normal erect posture. The observer stands back of the subject. The tape is placed around the trunk without constriction, with the zero point at the center back. The upper border of the tape rests under the arms at the level of the landmark of the armscye on the trunk and passes through the underarm midpoints of the left and right armscyes, as previously marked. When the subject's arms are raised slightly in order to place the tape in proper position in relation to the underarm midpoints, the tape should be somewhat slack in the front. If this precaution is observed, the tape will not constrict the chest muscles when the arms are lowered. If the subject elevates his shoulders, be should be asked to relax them.

When the tape has heen placed so that its upper border passes through the landmarks of the underarm midpoints and the girth is set without constriction, the observer passes around to the side of the subject to check the relative positions of the back and front arcs of the girth. The two arcs should lie horizontal to the floor. It is frequently necessary to lower the arcs and set the tape more loosely. The subject breathes normally and the middle value between the largest and smallest reading is recorded. Before removing the tape the level of its upper border is marked in the back by a dot in the center of the body. In this way the approximate level of the underarm midpoints is taken on the back and a landmark is provided for the measurement to follow.

15. Depth of scye.—The subject assumes a normal posture with head erect and eyes directed forward. The observer stands at the center back of the subject. The zero point of the tape is placed on the landmark at cervicale. The subject should he cantioned not to lower his head. The reading is made at the landmark placed in the center of the body during measurement No. 14. This landmark gives the position of the border of the tape when the latter was placed for the measurement of the girth of chest at the armseve.

16. Back arc of hips.—The subject stands erect with feet together, weight evenly distributed, and hands on the hips. The observer squats back of the subject with eyes at hip level. The zero point of the tape is placed at the bip level of the left side. The upper border of the tape lies in a horizontal plane. The reading is made on the right thigh at the bip level, the measurement being taken without constriction.

17. Maximum girth of chest.—The subject's position is bis normal crect posture with fect together. The tape is passed around the chest so that the upper border is at the level previously marked for the measurement of the maximum girth. The zero point is at the center front or center back depending upon the position of the landmarks. (See p. 21.) The front and hack arcs of the girth should he horizontal to the floor. The girth is measured without constriction. This measurement is omitted on hoys younger than 11 years of age and girls younger than 10. If the level of the girth of chest at the armscye as marked is the same as that indicated for the maximum girth, the reading for the girth of chest at the armscye is recorded for the maximum girth of chest as well.

18. Front arc of the chest.-The subject's initial position is his normal erect posture with feet together, and arms relaxed at the side. The observer should raise the arms of the subject just enough to permit the observer to see the underarm midpoiuts. The minimum movement to expose these points and yet not disturb their position can be accomplished if the shoulder is not disturbed and the movement of the shoulder is confined to the elevation of the arm. The arms are slightly hent at the elbow. The hands are placed far enough from the side to permit the ohserver to work hetween the arms and the trunk. Care is taken that the shoulders are not thrown forward giving the subject a hollow chest appearance and thus reducing the accuracy of the reading. The observer is in front of the accuracy of the reading. the subject with eyes at the level of the chest. The zero point of the tape is placed on the landmark at the right underarm midpoint. The upper horder of the tape hes horizontal to the floor, and the reading is made at the landmark at the left underarnu midpoint.

19. Girth of the waist.—The subject's position is his normal erect posture with feet together. The observer is in front of the subject. The tape is placed around the body at waist level with the upper border of the tape passing through the landmarks at the average waist level. The zero point is at the center front. The measurement is taken without constriction. The subject hreathes normally. The middle value between the largest and smallest reading is recorded.

20. Girth of the hips.—The subject's position is his normal erect posture with feet together and hands on the hips. The observer is at the right side of the subject. When the reading is made the eves are at hip level. The tape is passed around the hody so that the upper horder passes through the landmarks' made for the average hip level. The tape should he held horizontal to the floor. The measurement is taken without constriction.

The measurement is taken without constriction. 21. Girth of the neck base.—The subject's position is his normal erect posture. The observer stands to the right side of the subject. The tape is placed around the neck with its lower horder passing through the landmark placed ou the cervicale. The zero point of the tape lies just hack of the intersection of the neck base with the shoulder line. The thin edge of the tape rests on the markings of the neck hase of the right and left sides and the center front. The observer fits the tape to the landmarks in succession. releasing each placement after the one following is completed. The tape should describe a smooth. closed curve through the four landmarks. The measurement is taken without constriction and without undue slack.

22. Shoulder length.—The subject's position is his normal erect posture with feet together and arms relaxed at the sides. The observer stands back of the subject and to his right side. The zero point of the tape is placed at the landmark where the neck hase intersects the shoulder line. The top horder of the tape is placed on the shoulder line. The subject should he cautioned against lowering his shoulder and drawing the head away from the tape at its zero position.

23. Girth of the armscye, right.—The subject's position is his normal erect posture with feet together and arms relaxed at the sides. The observer is hack of the subject and to his right side. The subject's arm is raised sufficiently to permit the observer to place the tape under the arm so that the thin edge passes through the underarm midpoint and the zero point falls just below the armscyc at the hack. The case end of the tape is brought up over the shoulder, and the case is allowed to drop over the hack. thus providing the tension for this measurement. The folds of skin at the front of the armpit are eased under the tape. The tape is fitted to the hack and front of the armscyc as well as to the landmark where the armscyc intersects the shoulder line. The looped end of the tape is raised without unduly hinding the skin folds at the back of the armpit.

24. Girth of the upper arm, right.—The subject's position is his normal erect posture with feet together and arms relaxed at the sides. The observer is at the right side of the subject with eyes at the level of measurement. The tape is placed around the upper arm. The girth is taken midway hetween the shoulder and the elbow without constriction. The tape should he horizontal when the arm hangs relaxed so that the principal long axis of the arm is approximately perpendicular to the floor. 25. Girth of the elbow, right.—The subject stands in a nor-

25. Girth of the elbow. right.—The subject stands in a normal, erect position. The right arm is hent at the elbow, and the hand and fingers extended forward. The angle of the elbow is approximately 90° with the upper arm directed straight downward. The observer is at the right side of the subject and with eyes at the level of the measurement. The tape is placed around the arm so that it passes over the landmark made on the elbow and hisects the angle of the hent elbow. The zero point is in front of the observer. The measurement is taken without constriction.

26. Length of right arm, upper segment, back surface.— The subject stands in a normal erect position with feet together. The right fist is placed on the hip. with the hack of the hand toward the front of the hody. The arm is not hent at the wrist. The observer stands to the hack of the subject, at his right side. The zero point of the tape is placed at the point where the armscye intersects the shoulder line. The reading is made at the landmark previously placed at the elhow. The tape is continued over the elbow to the wrist.

27. Total length of right arm, back.—The subject's position is identical to that assumed for measurement No. 26. The observer stands to the right side and back of the subject. When the reading is made, the observer hends down under the point at the wrist so that the reading is made in the direct line of vision. The zero point of the tape is placed on the landmark where the armscye intersects the shoulder line. The tape passes over the elbow to the landmark at the distal end of the ulna. at the wrist (fig. 7). The measurement is taken with sufficient tension to maintain the tape in position at the elbow.

28. Trunk line, right.—The subject's position is normal erect posture with feet together. The observer asks the subject to relax his right arm and shoulder and permit him to place the arm in the desired position. The forearm is hent at an angle of 90° to the upper arm, and the hand is extended directly forward. While the observer steadies the subject's shoulder, he moves the entire arm thus hent, an inch or so directly forward. The observer, still steadying the shoulder, then grasps the hent elhow and tips it slightly upward until the underarm midpoint is just visible when the observer's eyes are at the level of the midtrunk. The object of this detailed procedure is to expose the underarm midpoint without moving it significantly from its position when the arm hangs loosely at the side. The observer sits at the right side of the subject with eyes at the level of the middle region of the trunk. The zero point of the tapc is placed at the underarm midpoint. The tape passes directly to the landmark placed at the average waist level. If the subject is wearing a handeau the tape may pass over or under the garment, whichever will disturh less the direct course of the tape hetween the landmarks. 29. Length from waist to hip, right.—The position of the subject and observer in taking measurement No. 28 is maintained. The zero point of the tape is placed at the landmark of the average waist level. The tape passes over the measuring garment, and the reading is made at the landmark placed at the average hip level.

30. Maximum girth of the thigh, right.—The subject's position is his normal erect posture with hands on the hips. The feet are parted slightly to permit the tape to pass freely between the thighs. The observer is at the subject's right side with eyes at the level of the folds of the buttocks. The tape, which is placed around the thigh with the npper border at the level of the fold of the buttock, is horizontal to the floor. The zero point is sitnated directly in front of the observer at the right side of the subject's thigh. The observer passes to the front of the subject after the tape is placed to see that the tape is in the proper position. If the fold of the buttock, is horizontal to yressure on the right buttock. However, several folds may be so produced and the major one of these must he selected provisionally. The tape passes over the thigh at its largest point. The measurement is taken without constricting the thigh.

31. Maximum girth of calf, right.—The subject's position for measurement No. 30 is maintained unaltered. The observer squats at the right side of the subject with eyes at the midlevel of the tibia. The tape passes around the calf at the level where the observer judges the girth to be maximum. The level is determined by looking at the back profile of the calf. The tape is held horizontal to the floor, and the measurement is taken without constriction of the calf.

32. Girth of the knee at tibiale, right.—The subject's position is the same as that described for measurement No. 31. The observer squats in front of the subject with eyes at the level of the tibiale. The tape is placed around the knee with the upper border at the level of the tibiale. The zero point is at the center front. The tape is held horizontal to the floor. The measurement is taken without constricting the knee.

33. Length of crotch, total.—The subject is asked to pull np the measuring suit by the waist band to insure a snug adjustment of the suit at the crotch. The left foot is placed on a stool or other steady object which elevates the left foot to the level of the middle of the right kneecap. The weight is evenly distributed between the two feet. The long axis of the right leg is approximately perpendicular. The right foot is directed straight forward. The left hand rests on the left thigh. The head and trnnk are erect. The principal transverse axis of the pelvis is approximately horizontal. The observer is at the left side of the subject while placing the zero point. He is at the center back with eyes at average waist level when the reading is made.

The zero point of the tape is placed at the landmark on the average waist level in the front. The subject holds the tape in position with two fingers flat against the ahdomen and spread so that the position of the zero point can be checked without moving the fingers. On very young children the observer holds the zero point of the tape in position. The tape passes centrally over the genitals and floor of the crotch to the landmark of the average waist level in the back. The tension of the tape is about that provided hy the weight of the tape case.

34. Length of the crotch, front.—The subject's position taken for measurement No. 33 is maintained. The observer squats at the subject's left side with eyes at crotch level. The zero point of the tape is placed at the landmark at the average waist level in front. When the reading of the total length of crotch has been made (measurement No. 33), the observer drops the tape from the average waist level in the hack to the crotch level. There the tape is supported on the observer's left index finger, and the case hangs free, providing the tension desired for this measurement. The tape is lowered from the floor of the crotch by the width of the tip of the observer's index finger so that the observer can grasp the tape between the index finger and thumb at the middle landmark of the thigh. This landmark is the reading point for measurement.

35. Extreme bend.-The subject stands with feet together facing a chair or stool about 2 feet away. He bends over at the hips and grasps the leg of the chair, or otherwise brings his hands to rest so that they are approximately at the middle or lower border of the kneecap. The head is allowed to drop forward. The legs are straight and perpendicular to the floor. It is necessary to adjust the position of the chair so that the legs and arms can be hrought to the desired position without discomfort for the subject. The observer is back of the snhject. He squats with eyes at knee level while the direction of the tape is checked and the reading is made. The zero point of the tape is placed at the point of the average waist level midway between center back and right side. The tape passes without constriction over the huttocks to the midpoint of the knce at the back. Throughout its course the tape is equidistant from the center line of the body; that is to say, the arc of the tape, although fixed at the landmarks, does not swing to either side or to the middle. The reading is made at the landmark midpoint of the knee in the back.

36. Trunk girth, vertical.—The subject is asked to pull np the measuring garment hy the waist band. His position is his normal erect posture. The feet are placed slightly apart so that the tape can pass freely between the thighs. The observer is in front of the subject with eyes at the level of the nipples. With younger subjects it is convenient to sit down. About 1 m. of tape is drawn from the case. The zero end of the tape is passed midway between the landmarks of the neck base and the armseye. In the back, the tape passes between the buttocks. In the front, at the crotch, the tape passes centrally over the genitals without constriction. Before the reading is made, the subject is asked to relax his shoulders to their normal rest position. The subject breathes normally. The middle value between the largest and the smallest reading is recorded.

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